Scientific Excellence • Resource Protection & Conservation • Benefits for Canadians
Excellence scientifique • Protection et conservation des ressources • Bénéfices aux Canadiens

Review of the Meziadin River Fishway and Upper Nass Biological Programs, 1990

D.R. Southgate

Department of Fisheries and Oceans
Prince Rupert, British Columbia
V8J 1G8

February 1991

Canadian Data Report of
Fisheries and Aquatic Sciences
No. 823

Fisheries and Oceans Pêches et Océans
Canada

Canadian Data Report of Fisheries and Aquatic Sciences

Data reports provide a medium for filing and archiving data compilations where little or no analysis is included. Such compilations commonly will have been prepared in support of other journal publications or reports. The subject matter of data reports reflects the broad interests and policies of the Department of Fisheries and Oceans, namely, fisheries and aquatic sciences.

Data reports are not intended for general distribution and the contents must not be referred to in other publications without prior written authorization from the issuing establishment. The correct citation appears above the abstract of each report. Data reports are abstracted in *Aquatic Sciences and Fisheries Abstracts* and indexed in the Department's annual index to scientific and technical publications.

Numbers 1–25 in this series were issued as Fisheries and Marine Service Data Records. Numbers 26–160 were issued as Department of Fisheries and the Environment, Fisheries and Marine Service Data Reports. The current series name was introduced with the publication of report number 161.

Data reports are produced regionally but are numbered nationally. Requests for individual reports will be filled by the issuing establishment listed on the front cover and title page. Out-of-stock reports will be supplied for a fee by commercial agents.

Rapport statistique canadien des sciences halieutiques et aquatiques

Les rapports statistiques servent à classer et à archiver les compilations de données pour lesquelles il y a peu ou point d'analyse. Ces compilations auront d'ordinaire été préparées à l'appui d'autres publications ou rapports. Les sujets des rapports statistiques reflètent la vaste gamme des intérêts et des politiques du ministère des Pêches et des Océans, c'est-à-dire les sciences halieutiques et aquatiques.

Les rapports statistiques ne sont pas destinés à une vaste distribution et leur contenu ne doit pas être mentionné dans une publication sans autorisation écrite préalable de l'établissement auteur. Le titre exact paraît au-dessus du résumé de chaque rapport. Les rapports statistiques sont résumés dans la revue *Résumés des sciences aquatiques et halieutiques*, et ils sont classés dans l'index annuel des publications scientifiques et techniques du Ministère.

Les numéros 1 à 25 de cette série ont été publiés à titre de relevés statistiques, Services des pêches et de la mer. Les numéros 26 à 160 ont été publiés à titre de rapports statistiques du Service des pêches et de la mer, ministère des Pêches et de l'Environnement. Le nom actuel de la série a été établi lors de la parution du numéro 161.

Les rapports statistiques sont produits à l'échelon régional, mais numérotés à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page du titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

91-03404/

Canadian Data Report of
Fisheries and Aquatic Sciences No. 823

Febuary 1991

Review of the Meziadin River Fishway and Upper Nass Biological Programs, 1990

by
D.R. Southgate

Department of Fisheries and Oceans

Prince Rupert, British Columbia

V8J 1G8

Correct citation for this publication:

Southgate D.R. 1991. Review of the Meziadin and Upper Nass Biological Program, 1990. Can. Rep. Fish. Aquat. Sci. 823: iii + 74 p.

Table of Contents

Abstract.....iii
Introduction..... 1
Methods..... 1
Upper Nass Survey..... 2
Results..... 2
Acknowledgements..... 73
References..... 74

Southgate D.R. 1991. Review of the Meziadin and Upper Nass Biological Program, 1990. Can. Rep. Fish. Aquat. Sci. 823: iii + 74 p.

ABSTRACT

This data report contains all the daily and cumulative counts for all salmon species and steelhead trout passing through the Meziadin River fishway. Age, sex and length information for sockeye sampled at the Meziadin Fishway, Bonnie Creek, Bowser and Damdochax Lakes is also presented.

In 1990, 120,954 large sockeye and 3,004 jack sockeye were enumerated at the Meziadin Fishway. In addition, 759 large chinook, 250 jack chinook, 2,029 coho, 18 pink and 81 steelhead were also counted.

Estimates for the sockeye escapement for the Upper Nass systems are also presented.

RESUME

Le présent rapport porte sur les denombrements quotidiens et cumulatifs de toutes les espèces de saumon et de truite arc-en-ciel anadrome qui empruntent la passe migratoire de la rivière Meziadin. Il contient également des données sur l'age, le sexe et la longueur des saumons rouges échantillonnés à la passe migratoire de Meziadin, à Bonnie Creek, et aux lacs Bowser et Damdochax.

En 1990, on a dénombré, dans la passe migratoire de Meziadin, 120 954 gros saumons rouges et 3 004 jeunes saumons rouges, de meme que 759 gros quinnats, 250 jeunes quinnats, 2 029 cohos, 18 saumons roses et 81 truites arc-en-ciel anadromes.

On presente aussi des estimations de l'echappee de saumon rouge dans le réseau supérieur de la Nass.

Introduction

The Meziadin River flows into the Nass River approximately 180 km from where the Nass River flows into Portland Inlet in Statistical Area 3 (see Figure 1). The fishway is situated 1 km from the confluence of the Meziadin and Nass Rivers. The fishway was constructed to bypass a series of falls (Victoria Falls) and allow returning adult salmon better access to spawning grounds on Meziadin Lake and tributaries. It is estimated that the Meziadin system produces 70 to 80% of the total Nass sockeye stock. In 1990 there were 120,954 sockeye enumerated at the fishway which represents 77% of the estimated escapment of 155,442.

Methods

The Meziadin Fishway was designed to operate either unmanned or accommodate enumeration facilities and personnel. The trap was installed on July 5 and the first sockeye was counted on July 6. Daily enumeration of all species and biolgical sampling (sockeye) was carried on throughout the program using standard methods as described by Southgate et al. (1988). The program continued until September 13, 1990.

Prior to the start of the 1990 program, maintenance on the fishway was completed. This included removing a build-up of gravel from the top end of the fishway where the counting trap is installed. A tracked excavater was used to remove the gravel. The panels that make-up the trap were then postioned in place before another gravel buid-up could occur. Stop logs, 10 feet upstream from the trap, have also been installed, hopefuliy to prevent any further build-up of gravel in and around the trap.

The handrail along the fishway was extended and now encloses the counting trap, providing safety protection for both DFO personnel and tourists.

Upper Nass Survey

The annual survey of upper Nass River sockeye systems was conducted between September 11 and September 13, 1990. These sockeye systems include Fred-Wright (Bonnie Creek and Upper Kwinagese), Bowser and Damdochax Lakes. Access to these areas is via float plane. Methods used in surveying have been previously described by Todd and Dickson (1970).

Bowser Lake

Bowser Lake, the second largest Nass sockeye producer was sampled on September 12 when 218 sockeye were gillnetted for sampling. The population estimate is calculated through an analysis of scale characteristics described by Todd and Dickson (1970). Of the 218 fish sampled, scale information from 208 was obtained; the remainder of the information being lost due to scale deterioration. The population estimate for Bowser Lake in 1990 is 15,688.

Fred-Wright Lake

Fred-Wright Lake has two major spawning areas, Bonnie Creek and the upper Kwinagese River. Population estimates are derived from visual counts from aircraft and by walking the creeks. Biological samples were also taken at Bonnie Creek. Sampling and stream enumeration were conducted on September 11. The popualation estimate for the Fred-Wright system in 1990 is 14,000 sockeye.

Damdochax Lake

Damdochax Lake is the smallest producer of sockeye in the Nass System. Population estimates are conducted by visual counts via float plane. The 1990 survey was conducted September 13. The escapement estimate was 4,000 and 100 sockeye were sampled for biological information.

Results

Water level measurements taken at the fishway during 1990 are recorded in Figure 2. The total large sockeye count for 1990 was 120,954 and 3,004 jack sockeye. The chinook count for 1990 was 759 large and 250 jack chinook. There were also 2,029 coho, 81 steehead and 18 pinks counted through the fishway. The daily and accumulative counts for all species are presented in Tables I to III. The Figures III to VIII give the daily counts in graphed form. In 1990, 1,400 sockeye were sample for biological information: sex, length, fin-clip and scales. This information is presented in Table IV. The biological information from Bowser, Damdochax, and Fred-Wright Lakes is shown in Tables V, VI, and VII. The age compostion and length information for the Meziadin fishway is presented in Tables VIII and IX. The age compostion and length information for the upper Nass Systems is found in Tables X and XI.

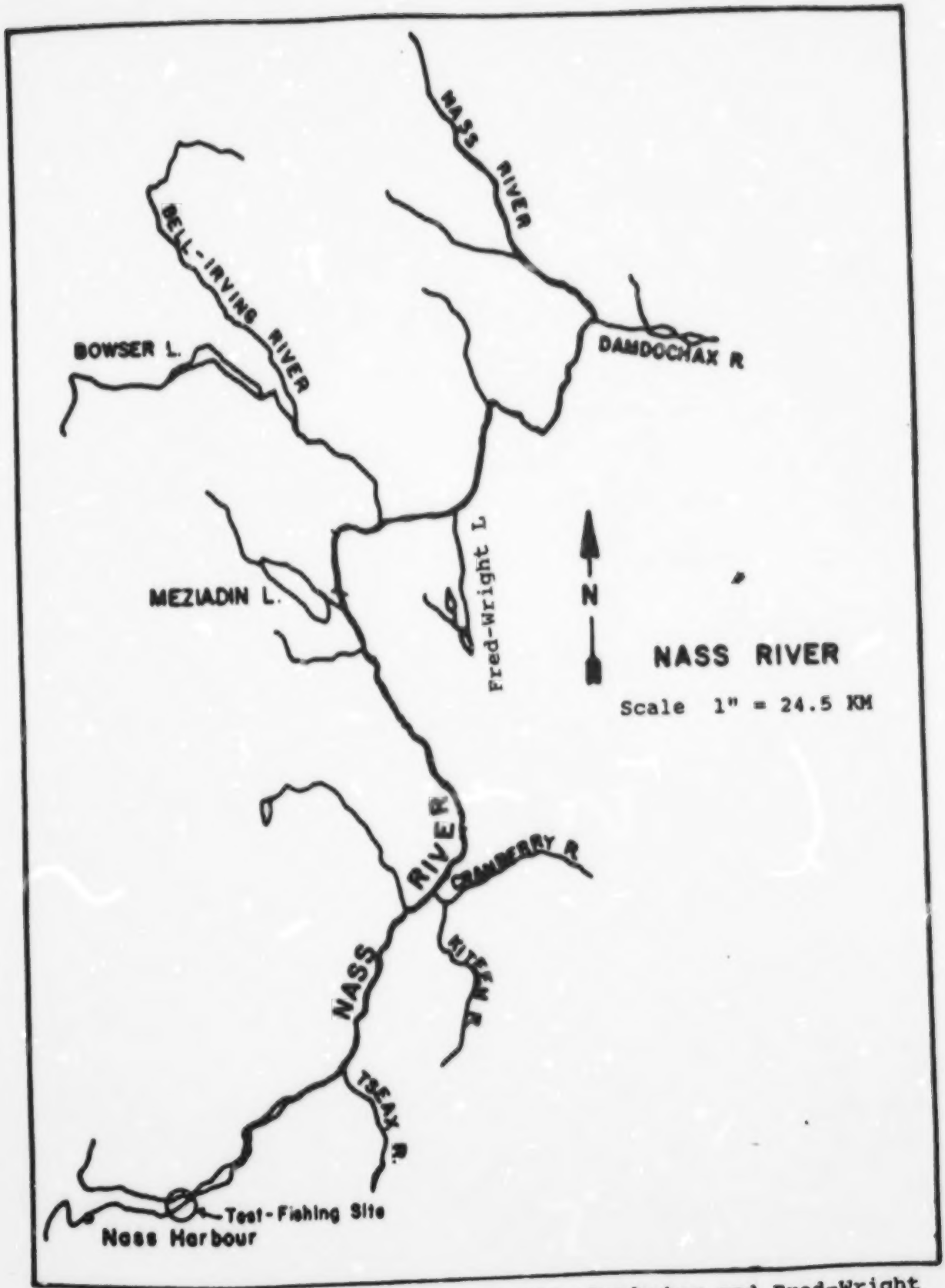

Figure 1. Location of Meziadin, Bowser, Damdochax and Fred-Wright lake's in the Nass River drainage.

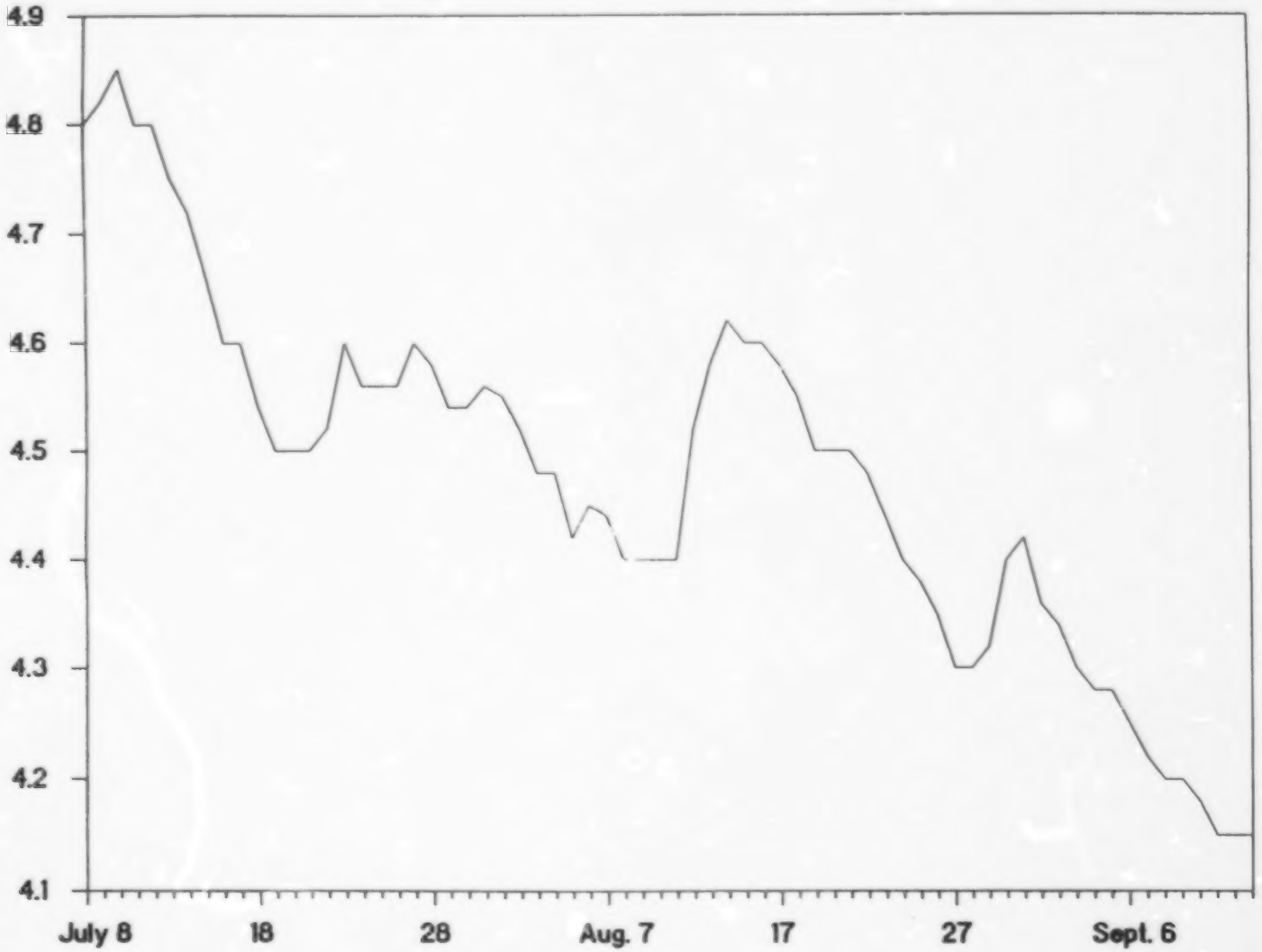

Figure 2. Meziadin River Water Levels, 1990.

Table I
Daily and cummulative counts of large and jack sockeye, 1990.

Date		JK. Sockeye Daily	JK. Sockeye Accum.	LG. Sockeye Daily	LG. Sockeye Accum.
July	8	0	0	6	6
	9	0	0	30	36
	10	0	0	24	60
	11	0	0	49	109
	12	0	0	90	199
	13	0	0	73	272
	14	1	1	74	346
	15	1	2	317	663
	16	0	2	396	1059
	17	0	2	3251	4310
	18	4	6	9362	13672
	19	8	14	17224	30896
	20	12	26	10163	41059
	21	32	58	6351	47410
	22	32	90	4906	52316
	23	35	125	2881	55197
	24	31	156	3218	58415
	25	22	178	2524	60939
	26	16	194	1957	62896
	27	13	207	1434	64330
	28	24	231	1719	66049
	29	33	264	2105	68154
	30	31	295	1659	69813
	31	35	330	1564	71377
Aug.	1	29	359	882	72259
	2	26	385	772	73031
	3	24	409	940	73971
	4	22	431	1058	75029
	5	25	456	1175	76204
	6	23	479	1603	77807
	7	49	528	1516	79323
	8	27	555	1048	80371
	9	31	586	1885	82256
	10	57	643	1543	83799
	11	52	695	1768	85567
	12	26	721	461	86028
	13	29	750	561	86589
	14	6	756	153	86742
	15	0	756	30	86772
	16	2	758	41	86813
	17	3	761	172	86985
	18	21	782	547	87532
	19	35	817	1055	88587
	20	47	864	1205	89792

Table I
Daily and cummulative counts of large and jack sockeye, 1990.
(continued)

Date		JK. Sockeye Daily	JK. Sockeye Accum.	LG. Sockeye Daily	LG. Sockeye Accum.
Aug.	21	24	888	1004	90796
	22	57	945	1414	92210
	23	41	986	1538	93748
	24	78	1064	2943	96691
	25	105	1169	1803	98494
	26	91	1260	2636	101130
	27	110	1370	2334	103464
	28	69	1439	2075	105539
	29	155	1594	2836	108375
	30	79	1673	747	109122
	31	83	1756	839	109961
Sept.	1	40	1796	247	110208
	2	114	1910	1060	111268
	3	102	2012	1565	112833
	4	196	2208	2195	115028
	5	30	2238	735	115763
	6	269	2507	1534	117297
	7	114	2621	988	118285
	8	101	2722	718	119003
	9	132	2854	598	119601
	10	53	2907	428	120029
	11	29	2936	361	120390
	12	42	2978	315	120705
	13	26	3004	249	120954

Table II
Daily and cummulative counts of large and jack chinook, 1990.

Date		JK. Chinook Daily	JK. Chinook Accum.	LG. Chinook Daily	LG. Chinook Accum.
July	11	0	0	2	2
	12	0	0	0	2
	13	0	0	0	2
	14	0	0	0	2
	15	0	0	3	5
	16	0	0	8	13
	17	0	0	8	21
	18	11	11	20	41
	19	14	25	81	122
	20	4	29	28	150
	21	4	33	33	183
	22	9	42	22	205
	23	11	53	12	217
	24	20	73	37	254
	25	5	78	19	273
	26	11	89	20	293
	27	9	98	12	305
	28	10	108	10	315
	29	10	118	21	336
	30	12	130	15	351
	31	17	147	18	369
Aug.	1	6	153	14	383
	2	4	157	7	390
	3	7	164	28	418
	4	7	171	19	437
	5	4	175	22	459
	6	2	177	35	494
	7	5	182	31	525
	8	2	184	9	534
	9	3	187	15	549
	10	5	192	22	571
	11	2	194	15	586
	12	1	195	9	595
	13	1	196	12	607
	14	0	196	3	610
	15	1	197	1	611
	16	0	197	0	611
	17	2	199	2	613
	18	2	201	0	613
	19	6	207	7	620

Table II
Daily and cummulative counts of large and jack chinook, 1990.
(continued)

Date		JK. Chinook Daily	JK. Chinook Accum.	LG. Chinook Daily	LG. Chinook Accum.
	20	1	208	7	627
Aug.	21	2	210	11	638
	22	3	213	7	645
	23	3	216	6	651
	24	0	216	5	656
	25	3	219	4	660
	26	11	230	4	664
	27	7	237	5	669
	28	2	239	3	672
	29	4	243	7	679
	30	0	243	0	679
	31	0	243	6	685
Sept.	1	0	243	2	687
	2	1	244	6	693
	3	0	244	3	696
	4	0	244	6	702
	5	0	244	5	707
	6	1	245	3	710
	7	1	246	7	717
	8	0	246	7	724
	9	2	248	12	736
	10	1	249	8	744
	11	1	250	4	748
	12	0	250	6	754
	13	0	250	5	759

Table III
Daily and cummulative pink, coho, and steelhead counts, 1990.

Date		Coho		Pink		Steelhead	
		Daily	Acumm	Daily	Accum.	Daily	Accum.
Aug.	8	1	1	0	0		
	9	3	4	0	0		
	10	5	[illegible]	1	1		
	11	5	14	1	2		
	12	1	15	0	2		
	13	2	17	0	2		
	14	0	17	0	2		
	15	0	17	0	2		
	16	0	17	0	2		
	17	1	18	0	2		
	18	2	20	0	2		
	19	6	26	0	2		
	20	1	27	0	2		
	21	2	29	0	2		
	22	3	32	0	2		
	23	5	37	1	3		
	24	6	43	0	3		
	25	21	64	1	4		
	26	55	119	0	4	1	1
	27	52	171	0	4	0	1
	28	61	232	0	4	0	1
	29	142	374	1	5	0	1
	30	49	423	0	5	1	2
	31	42	465	0	5	2	4
Sept.	1	22	487	0	5	1	5
	2	106	593	1	6	7	12
	3	87	680	1	7	11	23
	4	188	868	1	8	17	40
	5	53	921	1	9	1	41
	6	143	1064	1	10	7	48
	7	131	1195	1	11	4	52
	8	153	1348	1	12	6	58
	9	163	1511	2	14	8	66
	10	127	1638	2	16	4	70
	11	124	1762	1	17	3	73
	12	163	1925	1	18	3	76
	13	104	2029	0	18	5	81

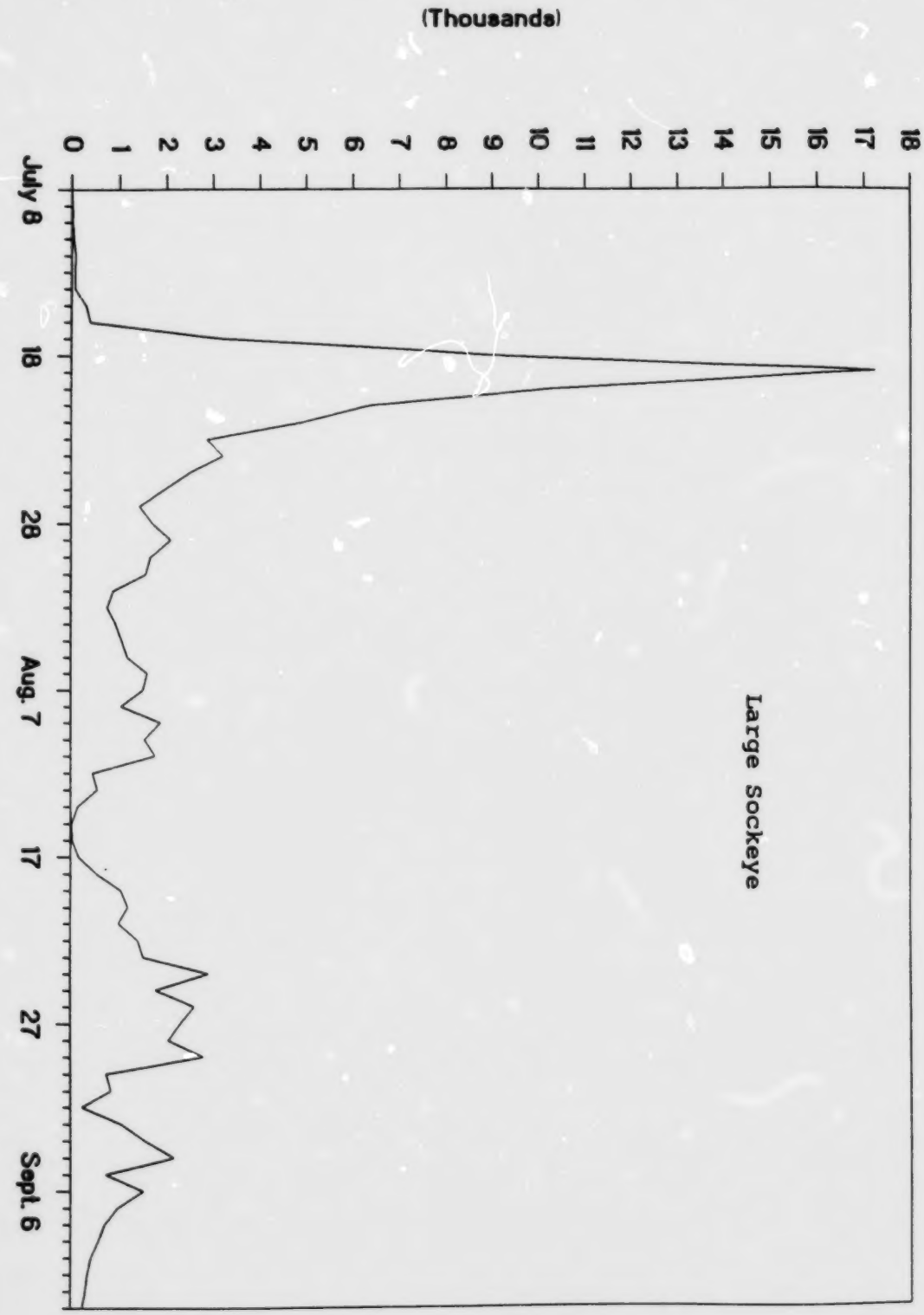

Figure 3. Daily Meziadin Fishway counts of large Sockeye, 1990.

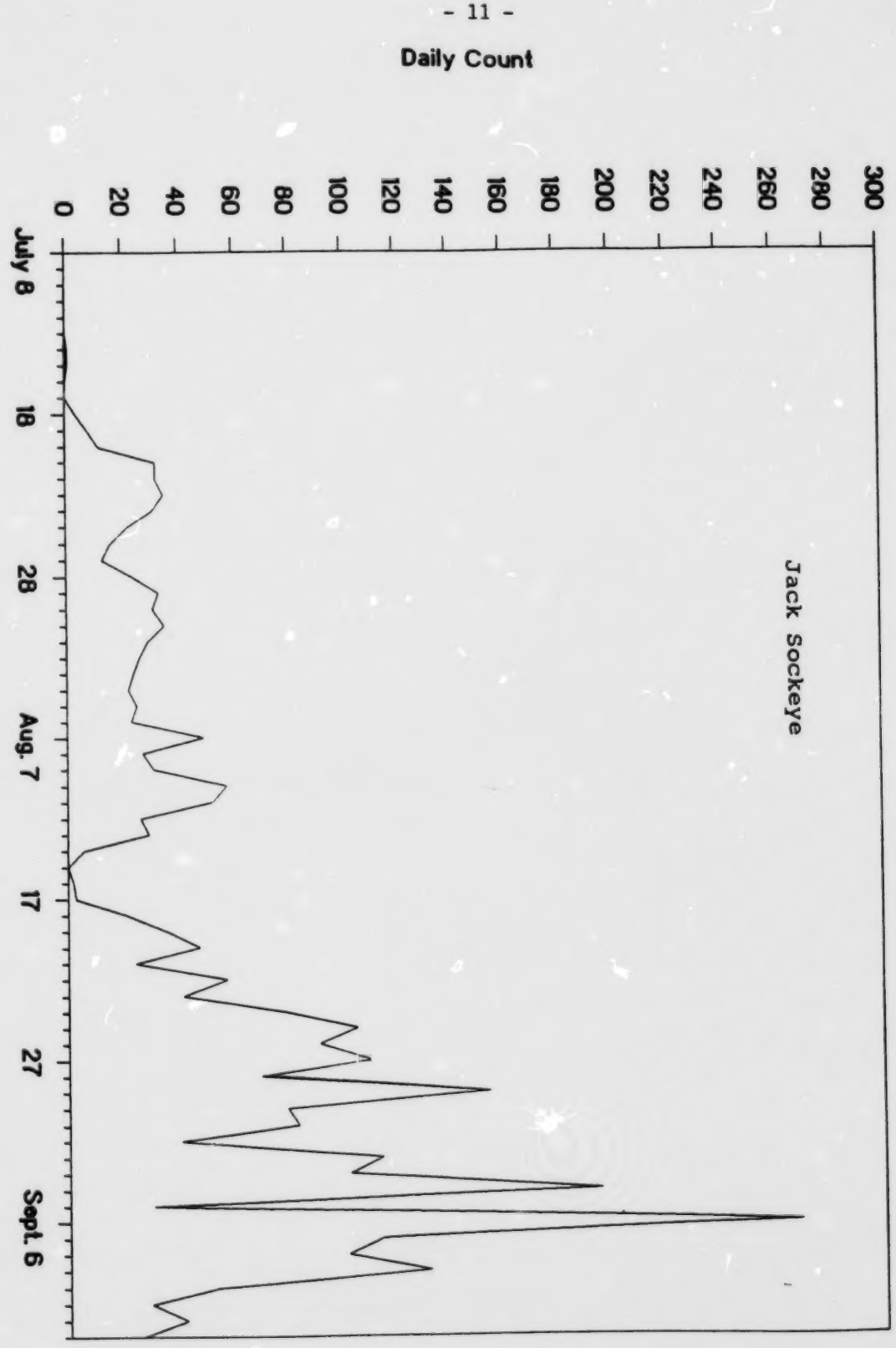

Figure 4. Daily Meziadin Fishway counts of Jack Sockeye, 1990.

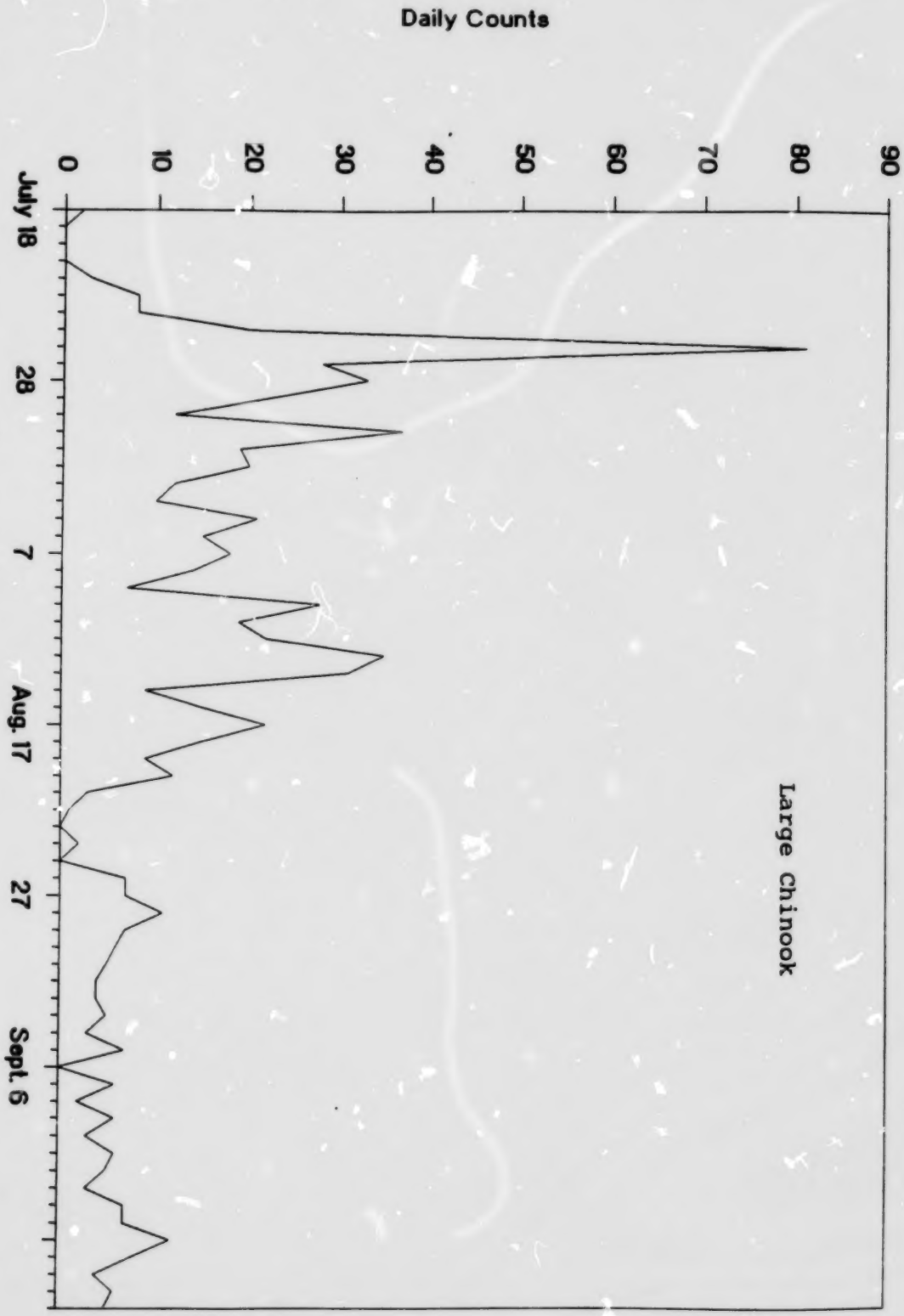

Figure 5. Daily Meziadin Fishway counts of large Chinook, 1990.

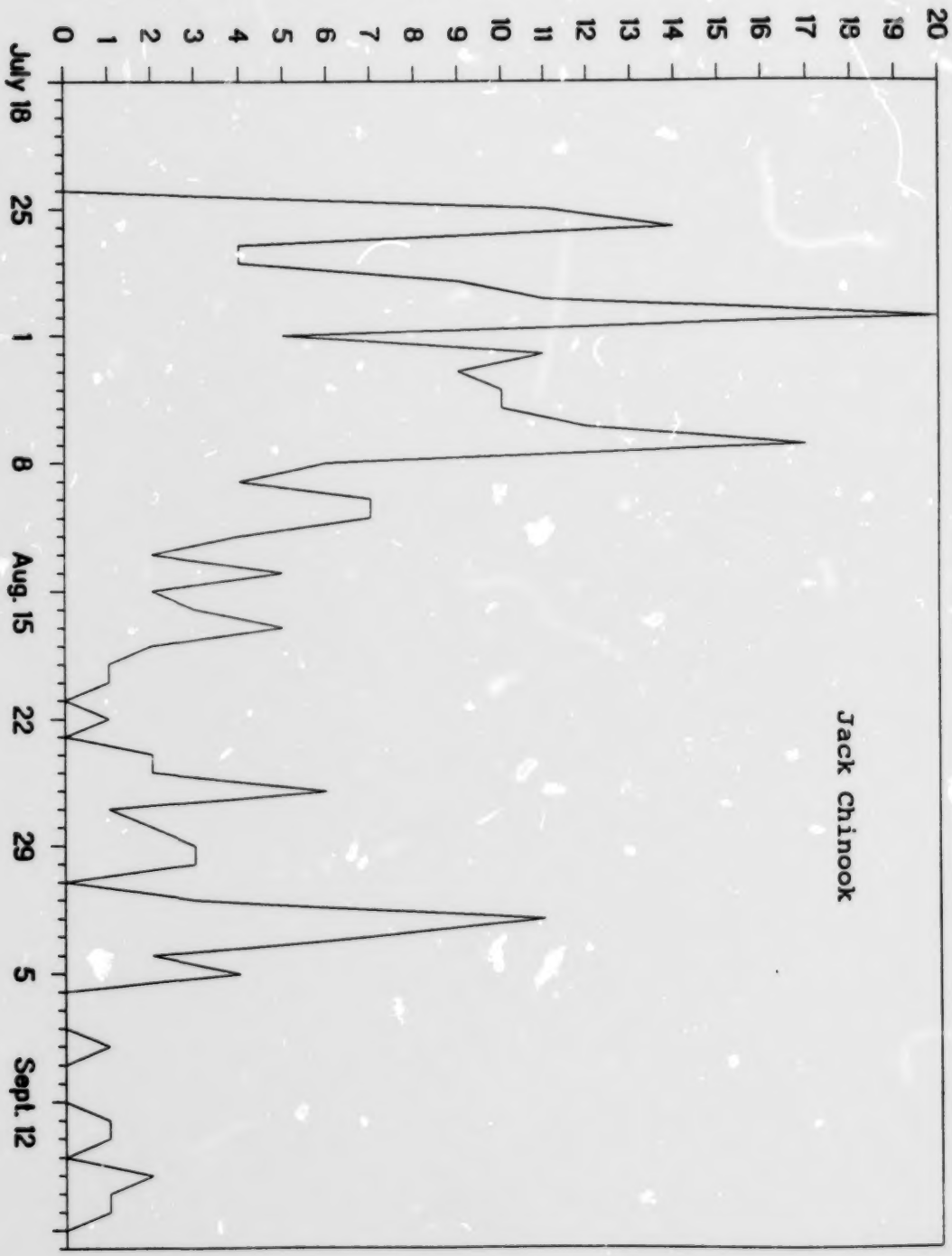

Figure 6. Daily Meziadin Fishway counts of Jack Chinook, 1990.

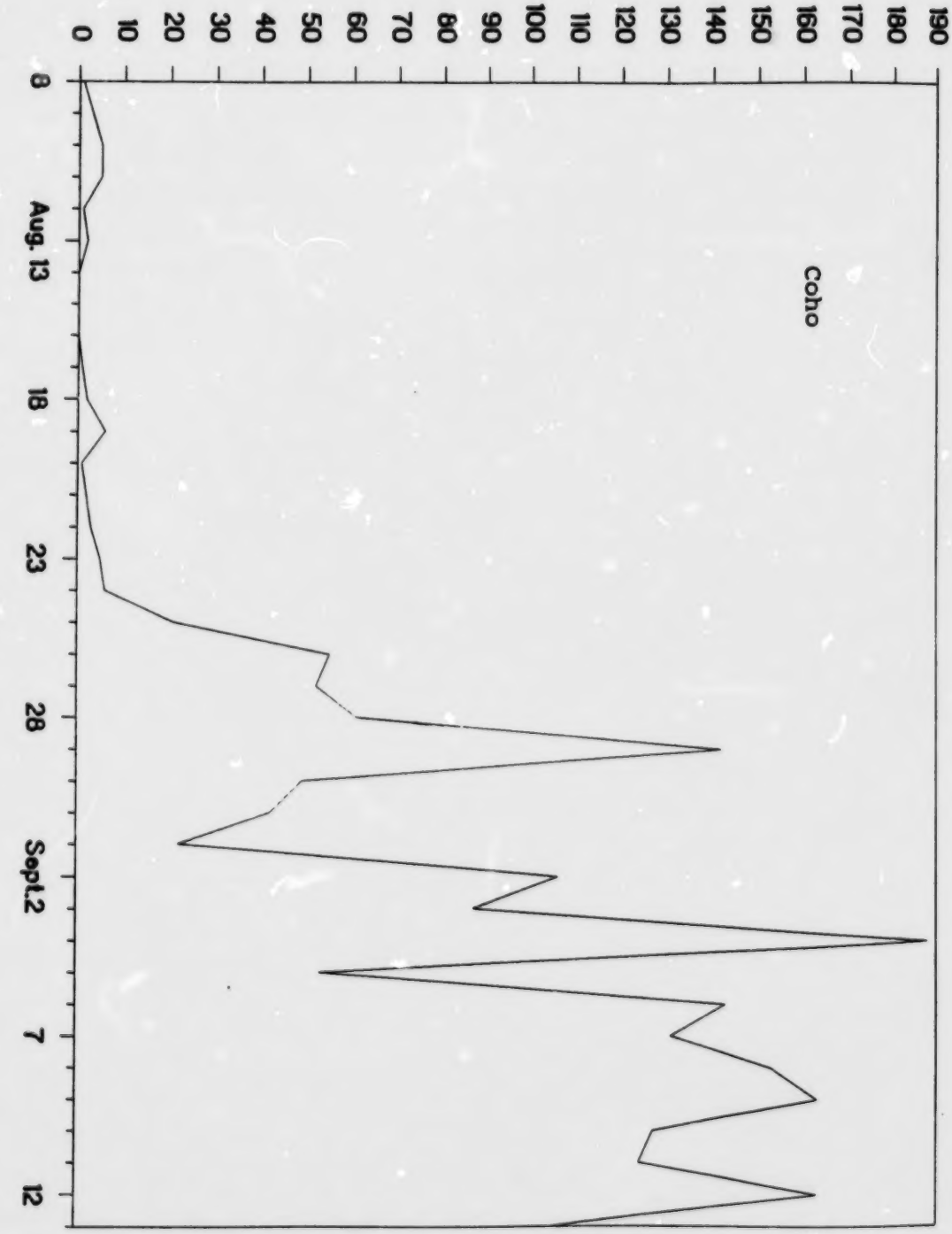

Figure 7. Daily Meziadin Fishway counts of Coho, 1990.

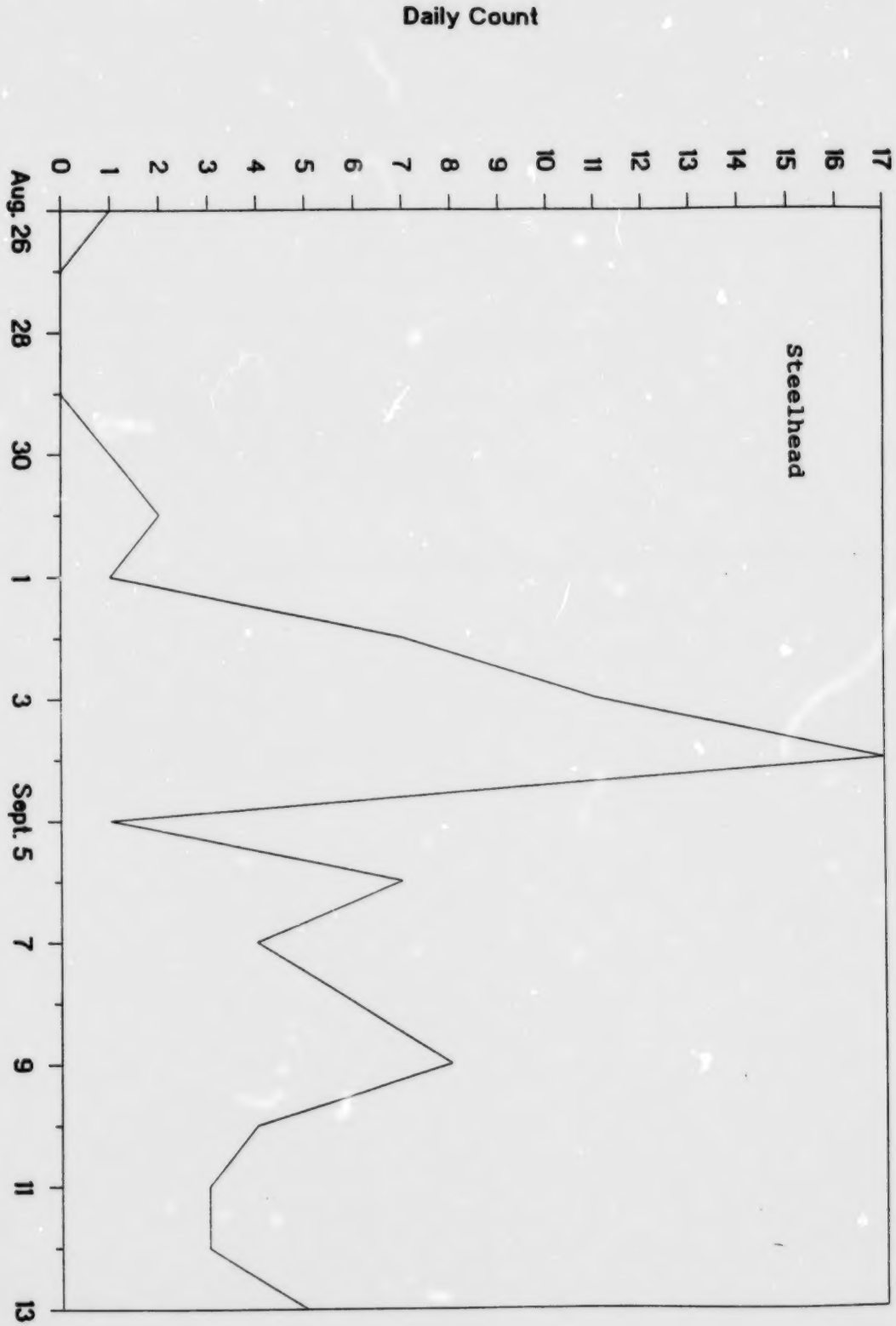

Figure 8. Daily Meziadin Fishway counts of Steelhead, 1990.

Table IV

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
JULY 17	1	M	460	590	5_3	(8+11)
	2	F	495	600	5_3	(7+11)
	3	M	515	630	6_3	
	4	F	530	660	5_2	
	5	M	540	680	6_3	
	6	F	485	605	3m	
	7	M	505	620	5_3	(7+12)
	8	M	470	575	4_2	
	9	M	455	560	5_3	(7+11)
	10	F	500	610	5_2	
	11	F	500	610	3m	
	12	M	470	590	2m	
	13	F	480	590	5_3	(8+11)
	14	M	490	600	5_3	(7+12)
	15	F	525	630	5_2	
	16	M	500	630	5_2	
	17	M	490	580	5_3	(6+11)
	18	M	500	610	2m	
	19	F	450	540	2m	
	20	F	510	620	6_3	
	21	M	520	645	4_2	
	22	F	500	605	5_3	(7+11)
	23	M	540	650	5_2	
	24	F	575	690	3m	
	25	M	465	580	2m	
JULY 18	26	F	465	560	5_2	
	27	M	530	645	5_2	
	28	F	470	550	5_3	(6+11)
	29	F	450	540	4_2	
	30	M	520	635	5_3	(6+11)
	31	F	430	520	4_2	
	32	M	520	650	6_3	
	33	M	550	680	3m	
	34	F	455	550	5_3	(6+11)
	35	F	460	550	5_3	(7+12)
	36	F	520	630	6_3	
	37	M	535	660	3m	
	38	F	490	560	4_2	
	39	F	480	580	5_3	(8+11)
	40	M	490	595	5_3	(7+11)
	41	M	470	570	4_2	
	42	M	460	575	4_2	
	43	F	485	590	5_3	(6+11)
	44	F	495	595	4_2	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 18	45	M	525	660	5_2	
	46	M	485	590	5_3	(6+11)
	47	M	565	700	5_2	
	48	F	545	670	5_2	
	49	M	500	605	5_3	(7+10)
	50	F	480	580	5_3	(6+11)
	51	M	555	675	5_2	
	52	F	510	610	5_3	(6+12)
	53	M	535	650	5_2	
	54	F	565	690	6_3	
	55	M	490	600	5_3	(6+11)
	56	F	480	590	5_3	(7+12)
	57	F	510	610	5_2	
JULY 19	58	F	540	660	5_3	(8+9)
	59	M	440	545	5_3	(7+10)
	60	F	540	640	5_2	
	61	F	510	600	4_2	
	62	F	450	550	5_3	
	63	M	540	665	5_3	(7+11)
	64	M	480	595	5_3	(6+11)
	65	M	545	675	6_3	
	66	M	495	610	5_3	(6+10)
	67	M	475	575	5_3	(6+9)
	68	F	515	620	5_3	(6+10)
	69	M	480	605	5_3	(6+11)
	70	M	560	685	6_3	
	71	F	430	520	5_3	(6+11)
	72	F	435	525	4_2	
	73	M	465	570	5_3	(6+12)
	74	F	490	580	5_3	(8+11)
	75	F	530	630	3_m	
JULY 19	76	F	460	545	5_3	(7+10)
	77	F	550	660	5_2	
	78	M	570	710	5_2	
	79	F	465	560	4_2	
	80	F	480	565	5_3	(7+9)
	81	F	465	565	5_3	(7+10)
	82	F	455	560	5_3	(7+11)
	83	F	490	600	5_2	
	84	F	510	620	6_3	
	85	F	450	545	4_2	
	86	F	515	620	6_3	
	87	M	510	630	4_2	
	88	F	490	585	6_3	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 19	89	M	490	610	5_3	(8+12)
	90	F	450	570	5_3	(6+9)
	91	F	540	640	5_2	
	92	F	455	550	4_2	
	93	F	445	530	5_3	(7+10)
	94	M	520	625	5_3	(6+9)
	95	M	500	590	3m	
	96	M	570	685	6_3	
	97	F	490	605	4_2	
	98	F	455	565	5_3	(6+12)
	99	M	585	730	5_2	
	100	M	480	590	4_2	
	101	M	500	600	5_3	(5+11)
	102	M	460	580	5_3	(6+11)
	103	F	460	550	4_2	
	104	F	515	620	6_3	
	105	M	565	690	5_2	
	106	F	450	550	5_3	(6+10)
	107	M	475	580	5_3	(7+11)
JULY 20	108	F	510	595	5_3	(8+13)
	109	F	480	570	4_2	
	110	M	550	670	6_3	
	111	M	515	610	5_3	(8+11)
	112	F	560	670	6_3	
	113	F	495	605	5_3	(7+10)
	114	F	470	570	5_3	(7+11)
	115	F	440	540	5_3	(7+12)
	116	F	480	575	5_3	(8+9)
	117	M	495	605	5_3	(8+11)
	118	F	520	640	5_2	
	119	F	515	620	6_3	
	120	F	530	640	5_2	
	121	F	485	590	5_3	(7+11)
	122	M	545	675	5_2	
	123	F	470	570	5_3	(5+11)
	124	F	525	650	6_3	
	125	M	515	650	5_2	
JULY 20	126	F	480	590	5_3	(6+12)
	127	F	430	525	4_2	
	128	F	510	620	5_3	(7+12)
	129	F	505	610	5_3	(5+11)
	130	F	455	560	5_3	(7+9)
	131	F	520	645	6_3	
	132	F	480	595	4_2	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 20	133	F	475	570	5_3	(7+11)
	134	M	510	645	6_3	
	135	M	510	635	4_2	
	136	F	545	670	5_2	
	137	F	520	640	5_3	(7+13)
	138	F	460	555	5_3	(7+11)
	139	F	500	600	6_3	
	140	M	420	530	5_3	(8+11)
	141	M	490	605	5_3	(7+13)
	142	F	485	590	5_3	(8+12)
	143	F	550	680	6_3	
	144	F	470	570	5_3	(7+11)
	145	F	480	590	5_3	(6+11)
	146	F	560	670	6_3	
	147	F	510	630	6_3	
	148	M	435	520	4_2	
	149	M	510	620	5_3	(8+13)
	150	M	500	595	5_3	(5+12)
JULY 20	151	F	475	570	5_3	(7+14)
	152	F	470	560	5_3	(6+13)
	153	F	500	590	5_3	(6+13)
	154	M	535	650	6_3	
	155	F	475	565	5_3	(7+11)
	156	F	455	530	4_2	
	157	M	510	615	4_2	
JULY 21	158	F	475	570	4_2	
	159	F	475	560	5_3	(8+13)
	160	M	500	620	5_3	(7+11)
	161	F	470	560	5_3	(6+10)
	162	F	465	560	4_2	
	163	M	490	600	4_2	
	164	F	440	530	4_2	
	165	M	460	560	5_3	(6+11)
	166	F	465	550	4_2	
	167	M	460	580	5_3	(7+10)
	168	M	580	730	6_3	
	169	M	630	510	5_3	(6+12)
	170	M	490	620	5_3	(8+10)
	171	M	530	660	5_3	(7+11)
	172	F	495	600	5_3	(7+10)
	173	M	500	610	5_3	(8+11)
	174	F	450	550	4_2	
	175	M	420	550	4_2	
JULY 21	176	F	485	600	5_3	(7+10)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 21	177	M	490	610	5_3	(6+11)
	178	M	480	580	5_3	(6+11)
	179	F	500	620	5_3	(8+14)
	180	F	490	590	5_3	(6+13)
	181	F	500	610	5_3	(7+13)
	182	F	480	600	4_2	
	183	M	460	570	5_3	(6+10)
	184	F	430	540	5_3	(7+10)
	185	M	485	600	5_3	(8+9)
	186	F	460	550	4_2	
	187	F	495	600	5_3	(7+10)
	188	F	460	560	5_3	(6+9)
	189	F	530	660	3m	
	190	F	460	580	4_2	
	191	M	480	600	5_3	(7+12)
	192	F	470	565	5_3	(7+11)
	193	F	460	540	4_2	
	194	F	490	590	5_3	(6+10)
	195	M	530	615	5_3	(5+11)
	196	F	500	610	5_3	(7+9)
	197	F	485	585	5_3	(6+13)
	198	M	470	585	4_2	
	199	F	460	545	5_3	(7+11)
	200	M	480	590	4_2	
JULY 21	201	F	420	515	5_3	(8+12)
	202	F	470	570	5_3	(6+13)
	203	F	510	595	4_2	
	204	F	485	570	5_3	(8+11)
	205	M	455	555	4_2	
	206	F	455	540	5_3	(6+10)
	207	M	490	610	4_2	
JULY 22	208	F	480	590	5_3	(7+11)
	209	F	450	560	5_3	(7+10)
	210	F	495	600	rg	
	211	F	520	625	4_2	
	212	M	510	630	5_3	(6+11)
	213	M	500	620	5_3	(8+10)
	214	F	510	630	6_3	
	215	M	495	600	5_3	(7+13)
	216	F	480	580	5_3	(7+12)
	217	F	490	590	5_3	(7+10)
	218	F	460	560	5_3	(6+11)
	219	F	520	635	6_3	
	220	F	485	590	5_3	(6+10)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 22	221	F	485	590	4_2	
	222	F	460	560	5_3^2	(8+12)
	223	F	550	685	3m	
	224	M	470	575	5_3	(7+13)
	225	F	480	575	5_3^3	(6+12)
	226	M	530	655	5_2^3	
	227	M	490	595	4_2^2	
	228	F	490	585	5_3^2	(6+12)
	229	F	475	575	5_3^3	(6+13)
	230	M	490	600	4_2^2	
	231	F	490	600	5_3^2	(7+10)
	232	M	525	645	5_2^3	
	233	F	450	545	5_3^2	(7+10)
	234	F	460	560	5_3^3	(7+11)
	235	M	505	630	5_3^3	(7+12)
	236	M	500	605	5_3^3	(8+11)
	237	F	440	535	4_2^3	
	238	F	450	540	5_3^2	(7+11)
	239	F	485	580	5_3^3	(5+12)
	240	F	430	530	5_3^3	(7+11)
	241	F	465	560	4_2^3	
	242	F	555	680	6_3^3	
	243	F	460	560	5_3^3	(8+11)
	244	M	495	610	5_3^3	(7+10)
	245	F	500	615	6_3^3	
	246	F	460	560	4_2^3	
	247	F	480	580	4_2^2	
	248	F	480	585	5_3^2	(6+11)
	249	F	460	565	5_3^3	(6+12)
	250	F	490	595	6_3^3	
	251	F	485	585	4_2^2	
	252	F	470	570	5_3^2	(9+11)
	253	F	460	550	5_3^3	(7+12)
	254	F	480	580	5_3^3	(5+12)
	255	M	535	650	6_3^3	
	256	F	545	685	6_3^3	
	257	F	450	550	4_2^3	
JULY 23	258	M	465	585	5_3^2	(6+11)
	259	M	455	560	4_2^3	
	260	F	480	590	5_3^2	(7+12)
	261	M	505	615	5_3^3	(6+13)
	262	F	510	605	5_3^3	(7+13)
	263	M	470	580	5_3^3	(5+10)
	264	M	545	670	5_2^3	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 23	265	M	560	685	5_2	
	266	F	500	615	5_3^2	(6+11)
	267	F	470	585	5_3^3	(6+12)
	268	M	540	670	6_3	
	269	F	515	615	2m	
	270	F	475	580	5_3	(7+9)
	271	M	510	630	5_3^3	(5+15)
	272	M	495	605	5_3^3	(6+11)
	273	F	440	535	4_2^3	
	274	F	515	610	2m	
	275	M	485	595	4_2	
	276	M	535	680	6_3^2	
	277	M	495	605	5_3^3	(7+10)
	278	F	500	605	5_3^3	(7+11)
	279	M	490	605	5_3^3	(7+10)
	280	F	460	565	5_3^3	(7+13)
	281	F	455	555	5_3^3	(7+13)
	282	M	460	575	5_3^3	(7+11)
	283	M	540	660	5_3^3	(6+10)
	284	F	500	610	5_3^3	(7+11)
	285	F	510	635	5_2^3	
	286	M	555	685	6_2^3	
	287	F	510	620	5_3^3	(7+11)
	288	F	495	600	5_3^3	(9+11)
	289	F	470	560	5_3^3	(7+10)
	290	F	450	550	5_3^3	(7+11)
	291	F	505	620	5_2^3	
	292	M	575	705	6_3^2	
	293	F	500	600	4_2^3	
	294	F	465	560	5_3^2	(6+12)
	295	F	460	560	5_3^3	(7+10)
	296	F	480	580	5_3^3	(8+10)
	297	F	490	600	5_3^3	(7+13)
	298	M	485	605	5_3^3	(7+12)
	299	F	450	565	5_3^3	(7+10)
JULY 23	300	M	445	575	5_2^3	
	301	M	475	605	4_2^2	
	302	F	490	590	5_3^2	(9+10)
	303	M	485	605	4_2^3	
	304	M	510	610	4_2^2	
	305	F	420	500	4_2^2	
	306	F	555	650	5_3^2	(6+9)
JULY 24	307	F	525	640	6_3^3	
	308	F	450	545	5_3^3	(6+12)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 24	309	M	470	570	5_3	(7+11)
	310	F	500	615	6_3	
	311	F	450	560	5_3	(6+12)
	312	M	520	640	4_2	
	313	F	450	550	5_3	(5+11)
	314	M	520	670	5_2	
	315	F	470	570	5_3	(7+11)
	316	F	480	575	4_2	
	317	F	540	650	6_3	
	318	F	480	585	5_3	(5+12)
	319	F	450	540	5_3	(6+9)
	320	F	475	590	5_3	(7+10)
	321	F	520	640	5_2	
	322	F	455	570	5_3	(7+10)
	323	M	460	580	5_3	(6+8)
	324	F	450	540	5_3	(6+11)
	325	F	470	575	5_3	(7+9)
	326	M	495	615	5_3	(7+11)
	327	F	490	595	5_3	(6+9)
	328	F	520	640	6_3	
	329	F	470	570	2m	
	330	M	555	690	6_3	
	331	F	495	600	4_2	
	332	F	500	600	5_3	(5+10)
	333	F	505	610	6_3	
	334	F	470	570	4_2	
	335	F	500	605	5_3	(7+12)
JULY 25	336	F	480	600	5_3	(7+10)
	337	F	470	570	5_3	
	338	M	565	715	5_2	
	339	F	510	620	5_3	(8+14)
	340	F	480	595	2m	
	341	F	455	550	5_3	(8+10)
	342	F	475	580	5_3	(5+11)
	343	M	515	630	5_3	(7+10)
	344	F	470	585	5_3	(5+10)
	345	F	450	565	5_3	(6+11)
	346	M	455	550	4_2	
	347	M	495	605	5_3	(6+12)
	348	F	455	560	5_3	(6+10)
	349	F	480	610	5_3	(9+9)
	350	F	475	580	5_3	(7+9)
JULY 25	351	F	470	575	5_3	(7+15)
	352	F	445	540	5_3	(7+12)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 25	353	M	510	615	5_3	(7+10)
	354	M	490	515	5_3	(7+12)
	355	F	465	560	5_3	(7+11)
	356	M	465	580	4_3	
	357	F	540	670	5_2	
	358	F	480	590	5_2	(7+13)
	359	M	475	580	4_3	
	360	F	490	600	5_2	(7+10)
	361	M	505	630	5_3	(6+12)
	362	F	410	490	rg	
	363	M	510	625	5_3	(8+11)
	364	F	440	540	2m	
	365	F	450	550	5_3	(6+10)
	366	M	490	605	5_3	(7+12)
	367	F	485	590	5_3	(8+12)
JULY 26	368	M	480	590	5_3	(8+12)
	369	F	470	565	5_3	(6+10)
	370	F	500	620	6_3	
	371	M	500	630	5_3	(7+10)
	372	F	460	565	4_2	
	373	M	515	630	5_3	(6+9)
	374	F	525	645	5_2	
	375	F	495	590	5_3	(6+11)
	376	F	440	530	5_3	(8+10)
	377	F	505	620	5_3	(7+12)
	378	F	505	630	5_3	(7+11)
	379	F	440	535	5_3	(7+11)
	380	F	450	555	5_3	(5+11)
	381	F	465	570	5_3	(6+13)
	382	F	450	545	5_3	(7+11)
	383	M	485	605	5_3	
	384	M	550	690	5_2	
	385	F	465	560	5_2	(7+13)
	386	F	530	645	6_3	
	387	F	490	590	5_3	(9+11)
	388	F	515	645	5_3	
	389	F	470	565	4_2	
	390	M	505	620	4_2	
	391	M	490	610	5_2	(6+12)
	392	F	440	540	5_3	(6+11)
JULY 27	393	M	465	580	5_3	(8+11)
	394	M	565	690	3m	
	395	F	430	530	5_3	(7+12)
	396	M	480	605	5_3	(8+11)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 27	397	M	465	580	5_3	(8+9)
	398	F	560	680	3m	
	399	F	440	530	4_2	
	400	F	460	560	5^2_3	(6+11)
	401	F	480	590	4^2_3	
	402	M	445	565	5^2_3	(7+13)
	403	M	450	550	5^3_3	(8+10)
	404	M	475	590	5^3_3	(5+12)
	405	F	580	710	6^3_3	
	406	F	480	585	4^2_2	
	407	F	520	640	6^2_3	
	408	F	465	570	5^3_3	(6+13)
	409	F	470	580	5^3_3	(7+10)
	410	M	495	610	5^3_3	(5+13)
	411	F	450	550	5^3_3	(7+13)
	412	F	440	545	5^3_3	(5+13)
	413	M	490	620	5^3_3	(8+12)
	414	F	460	550	5^3_3	(7+13)
	415	F	500	615	5^3_3	(6+13)
	416	M	470	595	5^3_3	(5+11)
	417	M	470	590	5^3_3	(6+10)
JULY 28	418	F	475	565	5^3_3	(8+10)
	419	F	430	515	4^2_2	
	420	M	510	620	5^2_3	(7+13)
	421	F	560	670	6^3_3	
	422	M	485	595	5^3_3	(7+13)
	423	M	540	675	6^3_3	
	424	M	490	590	4^2_2	
	425	F	490	590	5^2_3	(8+11)
JULY 28	426	M	455	555	4^2_2	
	427	M	495	595	4^2_2	
	428	F	450	550	5^2_3	(6+12)
	429	M	520	630	5^2_3	
	430	M	470	565	5^2_3	(6+11)
	431	F	460	550	5^3_3	(7+12)
	432	F	455	545	2m	
	433	F	425	510	5_3	(5+12)
	434	M	540	680	5^2_2	
	435	F	500	595	5^2_3	(7+12)
	436	F	430	530	4^2_2	
	437	M	480	590	4^2_2	
	438	F	520	640	5^2_2	
	439	F	425	530	5^2_3	(7+12)
	440	F	480	585	5^3_3	(5+11)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 28	441	M	490	600	5_3	(7+11)
	442	M	460	585	5_3	(7+11)
JULY 29	443	M	490	610	5_3	(6+9)
	444	F	450	560	5_3	(5+11)
	445	F	460	570	5_3	(7+11)
	446	M	470	600	5_3	(8+13)
	447	F	475	580	5_3	(6+10)
	448	F	490	615	6_3	
	449	M	480	600	5_3	(6+12)
	450	M	470	590	5_3	(6+12)
	451	M	515	630	4_2	
	452	F	440	540	5_3	(5+11)
	453	M	500	630	5_3	(7+11)
	454	M	490	610	4_2	
	455	F	440	550	4_2	
	456	M	460	575	2m	
	457	F	495	610	3m	
	458	M	475	585	5_3	(6+9)
	459	F	450	555	5_3	(6+12)
	460	F	510	620	5_3	(7+12)
	461	F	475	580	4_2	
	462	F	420	510	4_2	
	463	F	475	570	5_3	(7+10)
	464	F	465	565	5_3	(6+11)
	465	F	460	555	4_2	
	466	F	505	620	4_2	
	467	M	490	595	5_3	(7+12)
JULY 30	468	F	450	550	rg	
	469	M	550	680	6_3	
	470	M	550	690	3m	
	471	M	505	610	5_3	(8+10)
	472	M	520	630	3m	
	473	F	470	565	5_3	(8+12)
	474	F	455	560	5_3	(6+11)
	475	M	460	565	5_3	(6+11)
JULY 30	476	F	440	540	5_3	(6+14)
	477	F	435	520	5_3	(6+12)
	478	M	485	610	4_2	
	479	F	475	580	6_3	
	480	F	465	570	5_3	(8+11)
	481	M	480	590	5_3	(5+14
	482	M	535	640	6_3	
	483	F	470	570	5_3	(6+11)
	484	F	450	550	5_3	(7+14)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
July 30	485	F	510	620	6_3	
	486	F	490	585	5_3	(7+10)
	487	F	440	530	5_3	(7+12)
	488	F	445	540	5_3	(7+11)
	489	M	460	560	4_2	
	490	F	485	585	5_3	(7+10)
	491	M	470	575	5_3	(6+11)
	492	M	475	590	4_2	
JULY 31	493	F	510	620	4_2	
	494	M	480	590	4_2	
	495	F	455	550	5_3	(6+11)
	496	M	525	650	6_3	
	497	M	555	670	6_3	
	498	M	580	700	r9	
	499	F	470	570	4_2	
	500	F	470	560	4_2	
JULY 31	501	F	435	525	4_2	
	502	F	450	555	4_2	
	503	F	440	540	5_3	(6+13)
	504	F	425	510	4_2	
	505	M	495	605	5_3	(8+13)
	506	F	440	530	5_3	(7+11)
	507	F	490	590	5_3	(7+13)
	508	F	445	545	5_3	(6+12)
	509	M	555	675	6_3	
	510	F	420	500	5_3	(7+9)
	511	F	395	485	2m	
	512	M	500	600	5_3	(6+13)
	513	F	450	555	5_3	(6+13)
	514	M	470	580	5_3	(6+9)
	515	M	480	585	5_3	(5+14)
	516	F	490	600	5_3	(9+14)
	517	F	535	665	6_3	
AUG. 1	518	F	515	620	6_3	
	519	M	505	615	5_3	(8+11)
	520	F	475	590	5_3	(5+13)
	521	F	435	530	4_2	
	522	M	510	630	5_3	(7+10)
	523	F	480	580	5_3	(7+11)
	524	M	515	640	5_3	(7+12)
	525	F	460	565	2m	
	526	M	510	615	4_2	
	527	M	460	580	5_3	(7+11)
	528	F	455	565	4_2	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug 1	529	F	440	535	5_3	(6+10)
	530	F	455	560	4_2	
	531	F	425	520	5_3	(5+12)
	532	M	510	625	5_2	
	533	F	455	555	5_3	(6+14)
	534	F	475	575	5_3	(6+12)
	535	M	530	670	6_3	
	536	F	455	560	5_3	(5+13)
	537	M	485	615	rg	
	538	F	450	550	4_2	
	539	F	575	700	5_2	
	540	M	485	590	w	
	541	F	480	585	5_3	(6+14)
	542	F	520	645	5_2	
AUG. 2	543	F	470	580	5_3	(8+12)
	544	F	530	650	6_3	
	545	F	435	530	5_3	(6+9)
	546	F	470	565	5_3	(6+12)
	547	M	480	590	5_3	(5+14)
	548	M	455	560	5_3	(8+12)
	549	F	465	565	4_2	
	550	M	435	545	5_3	(7+8)
	551	F	525	630	6_3	
	552	F	535	650	3m	
	553	F	470	565	5_3	(8+12)
	554	F	560	695	5_2	
	555	F	485	585	5_3	(6+13)
	556	F	500	610	6_3	
	557	F	430	525	5_3	(5+11)
	558	F	465	570	5_3	(7+11)
	559	F	450	545	5_3	(6+12)
	560	F	435	545	4_2	
	561	M	485	590	5_3	(8+13)
	562	F	500	620	6_3	
	563	F	455	560	5_3	(7+12)
	564	M	520	640	5_3	(6+11)
	565	F	455	550	5_3	(7+12)
	566	F	455	565	4_2	
	567	F	435	530	4_2	
AUG. 3	568	M	470	590	5_3	(7+14)
	569	F	530	640	5_3	(7+12)
	570	F	500	620	5_3	(8+15)
	571	M	520	640	5_3	(8+13)
	572	F	535	655	5_3	(7+11)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug 3	573	F	445	550	4_2	
	574	F	505	615	6_3	
	575	F	465	570	5_3	(6+10)
	576	F	515	630	5_3	(8+11)
	577	F	475	580	4_2	
	578	M	470	585	5_3	(7+10)
	579	F	450	550	5_3	(7+13)
	580	F	450	550	2m	
	581	M	530	650	5_2	
	582	F	565	690	6_3	
	583	F	450	555	5_3	(6+14)
	584	M	480	595	5_3	(8+12)
	585	F	500	600	5_2	
	586	M	525	630	5_3	(7+11)
	587	F	530	640	6_3	
	588	F	465	565	5_3	(7+11)
	589	M	505	630	5_3	(7+12)
	590	F	415	520	4_2	
	591	F	435	520	rg	
	592	F	545	660	6_3	
AUG. 4	593	F	535	660	5_3	(7+10)
	594	F	455	555	5_3	(6+12)
	595	F	440	535	4_2	
	596	F	505	620	2m	
	597	F	455	565	5_3	(6+11)
	598	M	460	560	5_3	(4+12)
	599	F	530	650	5_3	(10+10)
	600	F	425	530	5_3	(6+13)
AUG. 4	601	M	490	595	5_3	(7+12)
	602	M	500	605	5_3	(5+11)
	603	M	500	620	5_3	(7+11)
	604	F	445	550	2m	
	605	F	435	550	5_2	
	606	F	460	560	5_3	(6+11)
	607	M	495	610	5_3	(5+12)
	608	F	495	600	5_2	
	609	M	545	675	5_2	
	610	F	500	600	5_3	(7+13)
	611	F	545	665	5_2	
	612	M	505	610	4_2	
	613	M	510	630	5_3	(7+12)
	614	F	440	520	4_2	
	615	F	430	520	4_2	
	616	F	455	550	5_3	(7+11)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 4	617	F	515	625	2m	
AUG. 5	618	F	505	620	4_2	
	619	F	505	630	4_2	
	620	F	555	685	6_3	
	621	F	455	545	5_3	(6+10)
	622	F	525	640	3m	
	623	F	440	550	5_3	(7+11)
	624	F	415	505	5_3	(6+14)
	625	M	425	540	4_2	
AUG. 5	626	F	530	640	6_3	
	627	F	475	570	5_3	(7+12)
	628	M	445	550	5_3	(5+10)
	629	F	455	555	4_2	
	630	F	435	530	5_3	(7+12)
	631	M	500	630	3m	
	632	M	505	610	5_3	(5+12)
	633	F	425	525	4_2	
	634	F	460	570	5_3	(6+10)
	635	F	555	665	3m	
	636	M	550	680	5_2	
	637	M	455	565	4_2	
	638	F	465	565	4_2	
	639	F	465	560	5_3	(7+10)
	640	F	455	545	5_3	(5+13)
	641	F	550	670	3m	
	642	F	450	545	5_3	(7+10)
AUG. 6	643	M	520	635	4_2	
	644	F	465	560	4_2	
	645	F	445	550	5_3	(7+9)
	646	M	490	610	4_2	
	647	F	425	530	4_2	
	648	F	445	550	5_3	(5+12)
	649	F	465	510	5_3	(6+12)
	650	M	525	640	3m	
	651	M	485	605	5_3	(7+10)
	652	M	485	610	5_3	(7+13)
	653	M	490	620	5_3	(8+12)
	654	M	440	550	5_3	(7+12)
	655	F	470	565	5_3	(6+11)
	656	F	460	550	5_3	(7+12)
	657	M	480	595	4_2	
	658	M	515	650	4_2	
	659	F	455	545	5_3	(8+10)
	660	M	520	635	5_3	(7+12)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 6	661	F	440	550	5_3	(5+12)
	662	M	480	600	4_2	
	663	M	530	650	6_3	
	664	F	430	520	4_2	
	665	F	465	570	5_3	(4+11)
	666	M	495	590	4_2	
	667	F	480	580	5_3	(6+14)
AUG. 7	668	F	410	500	5_3	(5+12)
	669	F	535	645	3m	
	670	F	445	540	5_3	(7+12)
	671	M	450	550	5_3	(7+12)
	672	M	475	580	4_2	
	673	M	530	640	5_3	(7+11)
	674	F	505	600	2m	
	675	F	490	590	5_3	(8+11)
	676	M	435	540	5_3	(5+13)
	677	F	480	575	2m	
	678	M	510	620	5_3	(6+12)
	679	F	445	535	5_3	(6+11)
	680	F	480	570	5_3	(6+12)
	681	M	480	580	5_3	(7+12)
	682	F	480	585	4_2	
	683	M	520	625	5_3	(7+13)
	684	F	445	530	4_2	
	685	M	550	680	6_3	
	686	F	470	560	5_3	(6+13)
	687	F	460	550	5_3	(8+8)
	688	F	465	560	5_3	(6+11)
	689	F	485	590	5_3	(8+13)
	690	M	505	610	4_2	
	691	F	475	570	5_3	(8+14)
	692	F	445	540	5_3	(8+8)
AUG. 8	693	F	520	640	5_3	(6+12)
	694	M	510	630	4_2	
	695	M	475	610	5_3	(7+11)
	696	F	485	580	2m	
	697	F	470	570	2m	
	698	F	545	690	5_2	
	699	F	455	540	5_3	(6+11)
	700	M	400	490	4_2	
	701	F	510	630	2m	
	702	F	465	560	5_3	(6+11)
	703	F	485	600	5_3	(7+12)
	704	F	475	600	5_3	(6+13)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 8	705	F	515	610	5_3	(6+12)
	706	F	475	580	5_3	(7+9)
	707	F	590	715	6_3	
	708	F	400	485	4_2	
	709	F	430	520	5_3	(8+13)
	710	F	505	640	5_3	(8+9)
	711	M	500	630	5_3	(8+11)
	712	F	535	650	5_2	
	713	M	495	610	5_3	(8+13)
	714	F	530	640	2m	
	715	F	375	470	5_3	(6+13)
	716	F	575	700	6_3	
	717	M	535	670	3m	
AUG. 9	718	M	475	620	4_2	
	719	F	590	715	5_2	
	720	F	475	575	5_3	(4+12)
	721	F	475	590	5_3	(6+15)
	722	F	505	630	3m	
	723	M	485	605	4_2	
	724	M	465	590	2m	
	725	M	495	620	5_3	(7+10)
	726	F	550	670	6_3	
	727	F	440	560	5_3	(7+10)
	728	M	505	640	5_3	(7+12)
	729	F	435	520	4_2	
	730	F	515	630	2m	
	731	F	455	570	5_3	(6+13)
	732	F	455	560	5_3	(4+13)
	733	F	530	630	5_2	
	734	F	440	540	4_2	
	735	F	505	610	5_2	
	736	F	510	610	5_3	(9+12)
	737	M	545	680	6_3	
	738	M	450	555	5_3	(7+12)
	739	F	550	645	3m	
	740	F	525	640	5_3	(7+10)
	741	F	490	590	5_3	(5+7)
	742	M	505	625	5_3	(7+10)
AUG. 10	743	F	460	590	2m	
	744	F	550	680	6_3	
	745	F	420	515	5_3	(8+10)
	746	F	500	605	5_2	
	747	F	460	560	5_3	(7+13)
	748	M	565	695	5_2	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 10	749	F	455	580	5_3	(8+10)
	750	F	485	580	5_3	(6+13)
	751	M	585	710	5_2	
	752	F	465	590	5_3	(6+12)
	753	M	495	620	5_3	(6+10)
	754	F	505	610	5_2	
	755	F	510	625	5_2	
	756	M	510	640	5_3	(6+12)
	757	F	485	580	4_2	
	758	M	525	625	5_3	(6+13)
	759	F	520	640	5_2	
	760	F	475	570	5_3	(5+10)
	761	F	480	580	5_3	(8+10)
	762	F	525	640	5_3	(6+12)
	763	F	450	540	5_3	(6+12)
	764	F	520	620	5_3	(7+10)
	765	F	465	570	4_2	
	766	F	575	690	6_3	
	767	M	510	630	2m	
AUG. 11	768	F	430	530	4_2	
	769	F	510	605	5_3	(7+11)
	770	M	530	630	5_3	(5+15)
	771	M	505	605	5_3	(8+11)
	772	F	460	590	4_2	
	773	F	445	555	4_2	
	774	M	475	575	4_2	
	775	M	585	715	6_3	
	776	F	470	570	5_3	(5+10)
	777	F	420	520	5_3	(7+13)
	778	M	515	615	5_3	(5+13)
	779	F	530	640	5_3	(7+12)
	780	F	440	560	5_3	(7+10)
	781	M	485	590	4_2	
	782	F	500	600	5_3	(7+14)
	783	F	495	595	4_2	
	784	F	490	610	5_2	
	785	M	555	680	5_2	
	786	F	505	640	4_2	
	787	M	485	590	4_2	
	788	M	495	610	4_2	
	789	F	425	540	5_2	(6+16)
	790	M	515	635	5_3	(7+10)
	791	F	560	685	6_3	
	792	F	420	510	5_3	(7+9)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
AUG. 12	793	M	430	530	5_3	(6+9)
	794	F	475	570	5_3^3	(8+13)
	795	F	475	575	2m	
	796	F	515	625	5_2	
	797	M	505	620	5_3^2	(6+10)
	798	F	575	710	5_2^3	
	799	M	480	610	4_2^2	
	800	F	490	600	5_3^2	(6+7)
	801	F	560	680	6_3^3	
	802	M	475	600	5_2^3	
	803	F	455	555	5_3^2	(7+10)
	804	F	470	570	5_3^3	(6+12)
	805	M	510	620	5_3^3	(7+11)
	806	F	460	560	5_3^3	(6+10)
	807	F	440	560	4_2^3	
	808	F	485	580	5_3^2	(6+10)
	809	F	525	620	5_3^3	(6+13)
	810	M	485	605	4_2^3	
	811	F	485	585	5_3^2	(8+12)
	812	F	455	555	5_3^3	(8+10)
	813	F	430	540	rg	
	814	F	475	590	5_3^3	(6+11)
	815	M	540	665	6_3^3	
	816	M	535	670	5_3^3	(5+10)
	817	M	575	700	6_3^3	
AUG. 13	818	F	370	455	4_2^3	
	819	F	470	570	5_3^2	(6+9)
	820	F	480	575	4_2^3	
	821	F	445	560	5_3^2	(6+11)
	822	M	550	700	6_3^3	
	823	F	460	570	5_3^3	(5+14)
	824	F	490	590	5_3^3	(5+10)
	825	F	475	575	4_3^3	
AUG. 14	826	F	460	570	5_3^2	(8+12)
	827	M	485	615	5_3^3	(7+12)
	828	F	575	710	5_2^3	
	829	F	580	710	3m	
	830	F	465	570	4_2	
	831	F	475	585	4_2^2	
	832	F	425	520	4_2^2	
	833	M	515	625	5_3^2	(6+11)
	834	F	515	630	4_2^3	
	835	F	515	635	5_2^2	
	836	F	465	555	5_3^2	(7+9)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 14	837	F	510	625	6_3	
	838	M	500	625	5_3	(6+14)
	839	M	535	675	5_2	
	840	F	510	615	5_2	
	841	M	550	670	6_3	
	842	F	510	620	4_2	
	843	F	460	570	5_3	(5+11)
	844	F	440	535	5_3	(5+11)
	845	F	495	595	rg	
	846	F	515	610	5_3	(5+13)
	847	F	520	620	5_3	(6+12)
	848	F	495	595	w	
	849	F	465	560	5_3	(7+11)
	850	M	500	620	5_3	(8+12)
AUG. 15	851	M	530	680	5_2	
	852	F	525	640	6_3	
	853	F	530	660	6_3	
	854	F	485	610	5_2	
	855	M	460	590	4_2	
	856	F	510	635	4_2	
	857	M	490	590	mt	
	858	F	560	695	6_3	
	859	F	500	620	5_3	(8+10)
AUG. 16	860	F	535	660	5_3	(7+13)
	861	F	490	600	4_2	
	862	F	460	560	rg	
	863	M	515	630	5_3	(6+12)
	864	F	495	595	rg	
	865	M	480	585	5_3	(6+10)
	866	F	515	630	5_3	(8+13)
	867	F	530	650	5_3	(7+13)
AUG. 17	868	F	465	570	5_3	(7+12)
	869	M	470	580	4_2	
	870	F	560	685	6_3	
	871	M	480	590	5_3	(5+9)
	872	F	490	600	4_2	
	873	M	530	650	5_3	(6+12)
	874	F	585	710	6_3	
	875	M	485	600	4_2	
	876	F	415	510	5_3	(6+12)
AUG. 18	877	F	460	590	5_3	
	878	F	490	600	5_3	(7+11)
	879	M	425	535	5_3	(7+10)
	880	F	440	540	5_3	(5+13)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 18	881	M	475	580	5_3	(7+11)
	882	M	505	620	4_2	
	883	F	465	590	5_3	(7+12)
	884	M	525	640	5_3	(6+12)
	885	M	480	585	4_2	
	886	F	495	630	5_2	
	887	M	555	690	5_2	
	888	F	565	690	W	
	889	F	430	525	5_3	(6+15)
	890	F	485	600	5_3	(7+11)
	891	M	540	660	5_3	(6+12)
	892	M	510	615	5_3	(7+13)
	893	F	550	665	6_3	
	894	F	545	655	5_3	(5+10)
	895	F	490	595	5_3	(6+13)
	896	F	500	605	5_3	(6+11)
	897	M	475	590	5_3	(9+9)
	898	F	525	625	5_3	(6+11)
	899	M	465	560	5_3	(6+11)
	900	M	490	615	5_3	(8+11)
	901	F	475	570	5_3	(8+11)
AUG. 19	902	F	510	630	6_3	
	903	M	520	645	5_3	(8+10)
	904	F	405	495	5_3	(6+12)
	905	F	460	555	5_3	(4+11)
	906	M	590	720	5_2	
	907	M	565	700	6_3	
	908	M	500	605	5_3	(6+10)
	909	F	540	680	6_3	
	910	M	550	675	6_3	
	911	F	465	580	5_3	(6+13)
	912	F	460	560	6_3	
	913	F	510	605	5_3	(6+12)
	914	F	530	640	5_3	(6+11)
	915	M	460	560	5_3	(7+10)
	916	M	480	580	5_3	(6+10)
	917	F	520	630	5_3	(7+11)
	918	F	550	660	5_3	(5+12)
	919	M	485	610	5_3	(5+11)
	920	F	500	610	5_3	(6+11)
	921	M	465	570	4_3	
	922	M	585	730	6_2	
	923	F	460	570	4_3	
	924	F	460	550	5_2 5_3	(7+12)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 19	925	F	480	585	4_2	
	926	M	520	630	5_3	(5+11)
AUG. 20	927	M	470	580	S_3	
	928	M	475	570	4_2	
	929	M	445	535	4_2	
	930	F	515	630	5_3	(6+11)
	931	M	470	580	4_2	
	932	M	560	695	5_2	
	933	F	515	620	5_2	
	934	M	545	680	6_3	
	935	F	500	600	4_2	
	936	F	545	655	6_3	
	937	F	490	610	5_3	(5+11)
	938	M	530	650	5_3	(7+10)
	939	F	530	635	5_3	(6+16)
	940	M	600	730	6_3	
	941	F	505	630	6_3	
	942	F	515	625	5_2	
	943	F	490	580	5_3	(7+12)
	944	M	440	530	5_3	(7+11)
	945	F	520	615	5_3	(7+8)
	946	F	570	690	2m	
	947	F	495	600	5_3	(7+10)
	948	F	480	570	5_3	(7+10)
	949	F	540	640	5_3	(6+9)
	950	M	510	610	5_3	(6+9)
	951	F	545	650	5_3	(7+13)
AUG. 21	952	M	585	710	6_3	
	953	F	560	670	6_3	
	954	F	495	600	5_3	(6+10)
	955	M	540	655	5_3	(5+12)
	956	M	550	665	6_3	
	957	M	575	705	5_2	
	958	M	560	700	5_2	
	959	M	445	540	4_2	
	960	F	500	595	4_2	
	961	M	560	685	5_2	
	962	F	495	600	4_2	
	963	M	495	620	5_3	(6+12)
	964	M	465	570	5_3	(7+11)
	965	F	450	535	4_2	
	966	F	460	565	5_3	(5+9)
	967	M	460	570	4_2	
	968	F	540	655	5_2	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 21	969	F	550	660	6_3	
	970	F	440	525	5_3	(7+12)
	971	F	460	560	5_3	(7+13)
	972	F	505	625	5_3	
	973	M	595	725	6_2	
	974	F	425	520	5_3	(5+11)
	975	F	500	605	5_3	(8+12)
	976	F	440	540	5_3	(7+12)
AUG. 22	977	F	520	630	5_3	(8+12)
	978	F	520	640	5_2	
	979	F	485	580	5_3	(4+11)
	980	M	510	620	5_3	(6+14)
	981	F	495	610	5_3	(6+10)
	982	F	570	690	6_3	
	983	M	530	650	5_3	(7+10)
	984	F	440	540	5_3	(6+10)
	985	M	470	585	4_2	
	986	F	540	660	6_3	
	987	F	460	570	5_3	(7+10)
	988	M	470	570	5_3	(7+9)
	989	M	470	570	5_3	(6+12)
	990	F	520	635	5_3	(7+12)
	991	F	545	660	6_3	
	992	F	585	700	6_3	
	993	F	575	705	6_3	
	994	F	475	560	4_2	
	995	M	510	620	4_2	
	996	M	490	595	5_3	(6+8)
	997	F	485	600	5_3	(7+10)
	998	F	500	605	4_2	
	999	F	505	615	5_3	(6+8)
	1000	F	525	640	5_3	(6+11)
	1001	F	470	580	5_3	(7+12)
AUG.23	1002	F	555	680	6_3	
	1003	M	570	700	5_2	
	1004	F	490	590	4_2	
	1005	F	450	550	4_2	
	1006	F	480	580	5_3	(5+14)
	1007	F	480	575	5_3	(7+11)
	1008	M	475	565	4_2	
	1009	M	500	610	5_3	(7+9)
	1010	F	525	630	5_3	(6+11)
	1011	F	555	690	rg	
	1012	F	565	690	5_3	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 23	1013	F	465	560	5_3	(5+12)
	1014	F	460	560	5_3	(5+12)
	1015	F	545	650	5_2	
	1016	F	500	610	5_3	(7+10)
	1017	F	455	560	rg	
	1018	F	475	560	2m	
	1019	F	470	560	4_2	
	1020	F	485	590	4_2	
	1021	F	535	635	6_3	
	1022	F	470	565	4_2	
	1023	M	465	565	5_3	(7+11)
	1024	M	500	620	4_2	
	1025	F	530	635	5_3	(7+10)
	1026	F	450	545	4_2	
AUG. 24	1027	M	500	620	5_3	(5+10)
	1028	M	520	640	5_3	(8+12)
	1029	M	550	670	5_3	(6+10)
	1030	M	505	615	w	
	1031	F	500	600	5_3	(8+11)
	1032	F	555	675	6_3	
	1033	M	475	575	4_2	
	1034	M	570	705	5_2	
	1035	M	500	610	rg	
	1036	F	505	605	5_3	(7+9)
	1037	M	460	570	4_2	
	1038	F	420	505	rg	
	1039	F	510	615	rg	
	1040	M	595	735	w	
	1041	M	600	750	6_3	
	1042	F	480	590	5_3	(6+10)
	1043	F	460	560	4_2	
	1044	M	570	695	6_3	
	1045	M	450	560	w	
	1046	F	430	510	5_3	(8+11)
	1047	M	465	570	4_2	
	1048	M	475	595	5_3	(7+11)
	1049	F	525	635	5_3	(7+10)
	1050	F	500	610	5_3	(6+12)
	1051	F	440	545	2m	
AUG. 25	1052	F	490	615	5_3	(7+13)
	1053	F	555	680	6_3	
	1054	F	490	585	5_3	(5+13)
	1055	F	480	580	rg	
	1056	F	480	580	5_3	(5+13)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 25	1057	M	430	535	5_3	(6+10)
	1058	M	410	500	4_2	
	1059	F	475	475	5_3	(5+12)
	1060	M	470	585	5_3	(6+12)
	1061	F	490	605	5_3	(4+13)
	1062	F	460	555	4_2	
	1063	F	480	585	5_3	(7+13)
	1064	M	550	670	6_3	
	1065	F	440	530	2m	
	1066	M	505	615	5_3	(5+14)
	1067	M	495	615	5_3	(7+11)
	1068	F	585	720	6_3	
	1069	F	480	580	5_3	(7+10)
	1070	F	490	585	5_3	(7+12)
	1071	M	510	630	5_3	(7+10)
	1072	F	425	505	4_2	
	1073	F	510	625	5_3	(6+7)
	1074	F	515	635	5_3	(7+11)
	1075	F	490	590	5_3	(7+11)
	1076	M	520	635	5_3	(8+10)
	1077	M	575	705	5_3	(6+12)
	1078	F	480	595	5_3	(7+12)
	1079	M	545	670	5_3	
	1080	F	470	575	5_2	(7+11)
	1081	F	440	530	4_3	
AUG. 26	1082	F	460	575	4_2	
	1083	M	560	680	6_2	
	1084	F	490	600	5_3	(7+10)
	1085	F	485	595	5_3	(8+12)
	1086	M	500	615	5_3	(4+11)
	1087	F	455	560	5_3	(5+12)
	1088	F	380	465	3_3	
	1089	F	500	600	5_1	(8+10)
	1090	M	565	705	5_3	
	1091	F	510	620	5_2	(7+12)
	1092	F	450	545	5_3	(8+10)
	1093	M	505	625	5_3	(8+10)
	1094	F	455	550	5_3	(8+10)
	1095	F	440	535	5_3	(7+10)
	1096	F	540	645	5_3	(6+11)
	1097	F	500	600	5_3	(7+11)
	1098	F	440	550	2m	
	1099	F	450	555	4_2	
	1100	M	510	615	5_3	(7+11)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
AUG. 26	1101	F	525	625	5_3	(5+9)
	1102	F	510	610	5_2	
	1103	F	480	575	4_2	
	1104	F	485	590	5_3	(5+11)
	1105	F	465	560	4_2	
	1106	M	565	710	6_3	
AUG. 27	1107	M	475	605	5_3	(5+12)
	1108	F	555	665	5_2	
	1109	F	450	555	4_2	
	1110	F	490	595	2m	
	1111	M	595	745	5_2	
	1112	M	585	720	6_3	
	1113	F	565	700	3m	
	1114	F	520	630	4_2	
	1115	M	580	710	6_3	
	1116	F	510	620	5_3	(6+14)
	1117	F	470	565	2m	
	1118	F	520	630	5_3	(6+11)
	1119	F	585	715	6_3	
	1120	F	515	640	5_3	(6+10)
	1121	F	470	560	4_2	
	1122	F	540	650	6_3	
	1123	F	470	570	4_2	
	1124	F	545	645	5_2	
	1125	F	505	610	5_3	(7+9)
	1126	M	485	605	5_3	(7+10)
	1127	M	565	690	6_3	
	1128	F	515	615	5_3	(7+12)
	1129	F	500	605	5_3	(5+11)
	1130	M	490	600	5_3	(6+13)
	1131	M	435	535	5_3	(5+10)
	1132	M	515	630	5_3	(5+12)
	1133	F	460	555	2m	
AUG. 28	1134	F	450	540	4_2	
	1135	M	595	740	6_3	
	1136	F	545	650	6_3	
	1137	F	450	545	2m	
	1138	M	525	640	5_3	(6+11)
	1139	F	435	530	5_3	(6+10)
	1140	F	500	605	5_3	(7+11)
	1141	F	510	615	5_2	
	1142	F	435	525	4_2	
	1143	F	395	485	4_2	
	1144	F	570	690	6_3	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 28	1145	M	570	690	5_2	
	1146	F	490	600	5_3	(5+14)
	1147	M	505	625	5_3	(6+14)
	1148	F	520	640	5_3	(4+14)
	1149	F	575	700	3m	
	1150	F	560	690	5_2	
	1151	M	575	705	6_3	
	1152	F	425	515	4_2	
	1153	M	500	620	4_2	
	1154	M	475	590	4_2	
	1155	F	460	560	4_2	
	1156	F	460	555	5_3	(5+11)
	1157	F	520	635	5_3	(6+15)
	1158	F	525	635	5_2	
AUG. 29	1159	F	480	590	5_2	(7+11)
	1160	M	490	595	5_3	(7+10)
	1161	F	460	560	4_2	
	1162	F	465	570	5_3	(8+11)
	1163	F	455	565	2m	
	1164	F	550	680	3m	
	1165	M	575	705	6_3	
	1166	F	505	610	2m	
	1167	F	490	600	3m	
	1168	F	405	495	4_2	
	1169	F	465	560	4_2	
	1170	F	475	570	5_3	(6+9)
	1171	M	510	620	5_3	(6+7)
	1172	M	530	650	5_3	(8+10)
	1173	F	560	675	5_2	
	1174	M	470	575	4_2	
	1175	F	475	590	5_3	(6+10)
	1176	F	550	660	5_2	
	1177	F	545	655	6_3	
	1178	F	510	625	2m	
	1179	F	470	570	5_3	(9+11)
	1180	F	525	640	3m	
	1181	F	465	565	5_3	(7+9)
	1182	F	495	600	2m	
	1183	F	450	535	4_2	
AUG. 30	1184	F	520	630	5_3	(7+10)
	1185	M	515	640	2m	
	1186	F	540	645	5_3	(5+7)
	1187	F	460	580	5_3	(5+9)
	1188	F	545	660	6_3	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 30	1189	F	505	610	6_3	
	1190	F	505	610	5_2	
	1191	M	550	695	3m	
	1192	F	475	580	4_2	
	1193	M	595	740	3m	
	1194	M	545	670	6_3	
	1195	F	470	570	4_2	
	1196	F	485	585	5_3	(6+13)
	1197	F	515	620	5_3	(6+10)
	1198	M	580	705	3m	
	1199	F	590	715	3m	
	1200	M	425	540	5_3	(7+12)
	1201	F	485	580	5_3	(6+12)
	1202	F	455	550	3m	
	1203	F	495	600	2m	
	1204	F	450	540	4_2	
	1205	M	405	495	2M	
	1206	M	520	635	5_3	(5+11)
	1207	M	530	645	5_3	(7+12)
	1208	F	490	590	2m	
	1209	F	500	605	5_3	(5+14)
	1210	F	530	650	5_2	
	1211	M	530	640	2m	
	1212	M	480	590	6_3	
AUG. 31	1213	F	515	625	5_3	(6+12)
	1214	M	580	710	6_3	
	1215	F	520	625	5_3	(6+11)
	1216	F	465	560	5_3	(9+11)
	1217	F	510	620	5_3	(7+11)
	1218	F	430	520	5_3	(5+12)
	1219	M	445	540	5_3	(5+9)
	1220	F	530	635	6_3	
	1221	M	610	750	6_3	
	1222	F	505	600	5_3	(6+11)
	1223	F	485	585	2m	
	1224	M	480	595	5_3	(7+14)
	1225	F	490	585	5_3	(5+10)
	1226	F	455	550	5_3	(7+10)
	1227	F	450	550	5_3	(6+13)
	1228	M	500	610	5_3	(7+13)
	1229	F	575	690	6_3	
	1230	F	470	560	2m	
	1231	F	455	555	5_3	(5+9)
	1232	F	520	630	5_3	(9+12)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Aug. 31	1233	F	530	640	5_2	
	1234	F	440	530	4_2	
	1235	F	440	530	4_2	
	1236	F	535	655	5_3	(7+11)
	1237	F	550	665	6_3	
SEPT. 1	1238	F	490	605	5_3	(6+10)
	1239	F	495	590	4_2	
	1240	F	465	560	5_3	(7+11)
	1241	M	515	630	5_3	(6+12)
	1242	F	530	640	5_2	
	1243	F	560	680	3_m	
	1244	F	505	600	5_2	
	1245	F	505	600	5_3	(5+11)
	1246	F	510	610	5_3	(6+11)
	1247	F	505	615	5_3	(8+10)
	1248	F	465	560	4_2	
	1249	F	520	620	5_3	(5+12)
	1250	F	485	580	5_3	(5+12)
	1251	F	515	610	5_3	(6+12)
	1252	F	470	565	5_3	(7+11)
	1253	F	550	690	6_3	
	1254	F	485	590	5_3	(6+10)
	1255	M	530	645	5_3	(7+11)
	1256	M	510	620	4_2	
	1257	F	515	650	5_3	(7+8)
	1258	F	480	590	5_3	(6+11)
	1259	F	470	570	4_2	
	1260	F	500	605	5_3	(7+11)
	1261	F	565	690	6_3	
	1262	F	575	700	3_m	
SEPT. 2	1263	F	490	590	5_3	(7+9)
	1264	F	500	600	5_3	(7+11)
	1265	F	505	610	5_3	(7+8)
	1266	M	570	700	6_3	
	1267	F	485	590	5_3	(8+10)
	1268	F	450	540	5_3	(4+11)
	1269	M	505	605	5_3	(6+9)
	1270	F	490	590	5_3	(7+11)
	1271	F	480	590	2_m	
	1272	F	420	510	4_2	
	1273	F	505	615	5_3	(6+11)
	1274	M	555	670	5_2	
	1275	F	505	600	5_3	(5+9)
	1276	F	565	680	6_3	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Sept. 2	1277	F	450	540	5_3	(7+12)
	1278	F	560	690	6_3	
	1279	F	500	610	6_3	
	1280	M	490	620	4_2	
	1281	F	575	695	3m	
	1282	F	490	600	5_3	(5+10)
	1283	F	445	530	5_3	(7+8)
	1284	M	510	630	5_3	(5+13)
	1285	F	485	575	5_3	(5+13)
	1286	F	470	570	4_2	
	1287	M	460	575	5_3	(5+13)
SEPT. 3	1288	F	455	555	4_2	
	1289	F	485	590	5_3	(4+13)
	1290	F	560	690	6_3	
	1291	F	460	550	2m	
	1292	F	530	635	5_3	(6+8)
	1293	F	540	650	6_3	
	1294	F	455	550	5_3	(5+13)
	1295	F	490	595	5_3	(6+10)
	1296	M	545	670	6_3	
	1297	F	485	580	5_3	(6+11)
	1298	F	495	595	5_3	(7+11)
	1299	F	495	605	5_3	(6+11)
	1300	F	480	570	4_2	
	1301	F	520	630	6_3	
	1302	F	515	610	5_3	(8+11)
	1303	F	465	565	5_3	(6+11)
	1304	F	530	655	5_3	
	1305	F	445	540	5_3	(5+13)
	1306	F	575	700	6_3	
	1307	F	440	540	5_3	(5+9)
	1308	F	495	600	6_3	
	1309	M	490	610	2m	
	1310	F	485	580	4_2	
	1311	F	495	610	5_3	(8+12)
	1312	F	490	600	5_3	(7+11)
SEPT. 4	1313	M	470	570	5_3	(7+12)
	1314	M	480	595	5_3	(8+10)
	1315	F	465	565	5_3	(6+8)
	1316	F	500	600	5_3	(7+10)
	1317	F	490	595	5_3	(6+13)
	1318	F	490	590	5_3	(6+12)
	1319	M	500	615	5_3	(5+11)
	1320	F	565	695	6_3	

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Sept. 4	1321	F	485	580	5_3	(5+11)
	1322	F	500	600	5_3	(7+12)
	1323	F	540	645	6_3	
	1324	F	610	740	3m	
	1325	F	570	700	3m	
	1326	F	570	690	6_3	
	1327	M	545	655	5_3	(7+11)
	1328	M	405	495	2m	
	1329	F	535	650	6_3	
	1330	F	535	640	5_3	(5+12)
	1331	F	550	650	5_2	
	1332	M	580	720	6_3	
	1333	F	500	605	5_3	(5+12)
	1334	F	480	580	5_3	(7+13)
	1335	F	465	565	5_3	(6+12)
	1336	F	440	525	4_2	
	1337	F	445	535	2m	
SEPT. 5	1338	M	440	540	5_3	(8+8)
	1339	M	490	600	4_2	
	1340	F	540	645	5_3	(6+10)
	1341	F	530	630	4_2	
	1342	F	505	610	5_3	(6+10)
	1343	F	550	660	6_3	
	1344	F	495	600	5_3	(7+12)
	1345	M	515	640	5_3	(7+10)
	1346	F	480	590	5_3	(5+11)
	1347	F	485	580	5_3	(6+10)
	1348	F	515	620	5_3	(5+13)
	1349	M	590	725	6_3	
	1350	F	480	580	5_3	(7+12)
	1351	F	460	565	4_2	
	1352	F	505	605	4_2	
	1353	M	530	655	6_2	
	1354	F	420	510	4_3	
	1355	F	475	585	5_2	(8+10)
	1356	F	515	625	4_3	
	1357	M	555	685	5_2	(7+13)
	1358	M	515	625	5_3	(6+12)
	1359	F	440	530	4_2	
	1360	F	485	580	5_3	(3+10)
	1361	F	525	630	6_3	
	1362	F	505	610	5_3	(5+10)
SEPT. 6	1363	F	510	605	5_3	(6+12)
	1364	M	510	625	5_3	(6+11)

Table IV (cont')

Biological information from sockeye samples collected daily at the Meziadin Fishway, 1990.

Date	Sample #	Sex	H.P Length	N/F Length	Age	Circuli Count
Sept. 6	1365	F	495	595	5_3	(7+10)
	1366	F	510	620	5_3	(6+9)
	1367	M	515	640	5_3	(6+10)
	1368	F	510	610	5_3	(7+12)
	1369	M	530	665	6_3	
	1370	F	505	600	3m	
	1371	M	505	620	2m	
	1372	F	480	580	4_2	
	1373	M	580	710	3m	
	1374	F	515	615	5_3	(5+11)
	1375	F	495	595	4_2	
	1376	M	525	660	5_3	(6+12)
	1377	F	485	590	5_3	(3+11)
	1378	M	525	645	5_3	(4+10)
	1379	F	485	590	4_2	
	1380	F	465	560	4_2	
	1381	F	475	570	5_3	(6+12)
	1382	M	590	730	6_3	
	1383	F	430	530	rg	
	1384	F	530	650	5_3	(7+11)
	1385	F	465	570	5_2	
	1386	F	510	610	5_3	(7+11)
	1387	M	520	635	5_2	
SEPT.7	1388	F	490	595	5_2	
	1389	F	490	595	5_3	(7+8)
	1390	F	490	595	5_3	(8+9)
	1391	M	530	655	5_3	(6+13)
	1392	M	505	625	4_2	
	1393	F	450	545	5_3	(6+9)
	1394	F	520	630	5_3	(6+11)
	1395	M	560	690	6_3	
	1396	F	435	530	2m	
	1397	F	520	620	5_3	(6+9)
	1398	M	520	635	5_3	(7+13)
	1399	M	480	590	5_3	(7+11)
	1400	F	520	625	5_2	

Table V

Biological information obtained from Sockeye samples collected at Bonnie Creek, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept. 11	1	M	463	600	5_2	
	2	M	500	640	5_2	
	3	M	520	670	5_2	
	4	M	485	650	5_2	
	5	M	510	670	5_2	
	6	M	405	530	4_2	
	7	M	450	580	5_2	
	8	M	485	630	5_2	
	9	M	455	595	5_2	
	10	M	480	625	5_2	
	11	M	445	580	4_2	
	12	M	505	685	5_2	
	13	M	485	625	5_2	
	14	M	480	640	5_2	
	15	M	510	685	5_2	
	16	M	520	665	5_2	
	17	M	510	675	5_2	
	18	M	515	670	5_2	
	19	M	510	660	5_2	
	20	M	520	670	5_2	
	21	F	505	650	5_2	
	22	F	505	620	5_2	
	23	F	500	625	5_2	
	24	F	495	620	5_2	
	25	F	490	605	5_2	
Sept. 11	26	F	500	610	5_2	
	27	F	475	590	5_2	
	28	F	505	615	5_2	
	29	F	495	600	5_2	
	30	F	500	630	5_2	
	31	F	465	600	5_2	
	32	F	475	595	5_2	
	33	F	420	510	4_2	
	34	F	500	625	5_2	
	35	M	505	665	5_2	
	36	M	490	655	5_2	
	37	M	525	670	5_2	
	38	M	495	640	5_2	
	39	M	520	655	5_2	
	40	M	510	660	5_2	
	41	M	510	645	5_2	
	42	M	510	655	5_2	
	43	M	480	630	5_2	
	44	M	495	640	5_2	
	45	M	475	625	5_2	
	46	M	470	610	5_2	
	47	M	470	595	5_2	
	48	M	485	635	5_2	

Table V (Continued)

Biological information obtained from Sockeye samples collected at Bonnie Creek, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 11	49	M	450	585	5_2	
	50	M	520	665	5_2	
	51	M	500	670	6_3	
	52	M	515	675	5_2	
	53	M	440	660	W^2	
	54	M	525	685	5_2	
	55	M	530	685	5_2	
	56	M	510	675	5_2	
	57	F	525	660	5_2	
	58	F	480	610	NA	
	59	F	440	555	4_2	
	60	F	490	610	S_2	
	61	F	490	615	5_2	
	62	F	485	605	5_2	
	63	F	480	610	5_2	
	64	F	470	595	5_2	
	65	F	480	610	5_2	
	66	F	430	530	5_2	
	67	F	470	590	5_2	
	68	F	475	610	5_2	
	69	F	505	630	S_2	
	70	F	490	615	5_2	
	71	F	505	625	5_2	
	72	F	460	585	5_2	
	73	F	470	585	5_2	
	74	F	485	615	5_2	
	75	F	475	600	5_2	
	76	F	510	630	5_2	
	77	F	495	620	5_2	
	78	F	480	595	5_2	
	79	F	500	610	5_2	
	80	F	495	615	5_2	
	81	F	475	605	5_2	
	82	F	460	575	5_2	8+6
	83	F	475	605	5_3	
	84	F	560	630	5_2	
	85	F	435	535	4_2	
	86	F	415	520	4_2	
	87	F	415	530	4_2	
	88	M	470	630	5_2	
	89	M	455	580	5_2	
	90	M	505	675	5_2	
	91	M	495	640	5_2	
	92	M	465	620	5_2	
	93	M	500	650	5_2	
	94	M	480	645	5_2	
	95	M	485	635	5_2	
	96	M	480	640	5_2	
	97	M	495	650	5_2	

Table V (Continued)

Biological information obtained from Sockeye samples collected at Bonnie Creek, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Count
Sept 11	98	M	520	670	5_2	
	99	M	495	660	5_2	
	100	M	465	620	5_2	

Table VI

Biological information obtained from Sockeye samples collected at Bowser Lake, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Counts
Sept. 12	1	M	495	660	6_3	
	2	M	560	705	6_3	
	3	M	510	650	6_3	
	4	M	415	590	4_2	
	5	M	400	545	5_3	5+6
	6	M	415	540	5_3	4+7
	7	M	510	660	5_2	
	8	M	490	645	6_3	
	9	M	430	560	5_3	6+10
	10	M	520	655	S_3	
	11	M	450	570	5_3	7+8
	12	M	515	645	5_3	
	13	M	415	520	4_2	
	14	M	485	635	5_2	
	15	M	510	650	5_2	
	16	M	475	630	5_2	
	17	M	440	535	5_3	7+6
	18	M	545	685	6_3	
	19	M	485	665	5_2	
	20	M	490	655	5_2	
	21	M	515	670	5_2	
	22	M	490	630	6_2	
	23	M	520	665	6_3	
	24	M	490	645	6_3	
	25	M	525	710	6_3	
	26	M	410	565	5_3	6+6
	27	M	450	580	4_3	
	28	M	510	670	6_2	
	29	M	480	655	5_3	
	30	M	520	680	6_2	
	31	M	505	675	6_3	
	32	M	530	690	6_3	
	33	M	525	680	6_3	
	34	M	530	710	6_3	
	35	M	505	655	5_3	
	36	M	420	575	5_2	
	37	M	530	710	6_3	
	38	M	505	675	5_3	
	39	M	435	565	5_2	
	40	M	500	665	6_2	
	41	M	430	575	6_3	
	42	M	445	605	UD	
	43	M	530	685	4_2	
	44	M	510	665	5_2	
	45	M	460	650	5_2	
	46	M	505	670	6_2	
	47	M	440	560	6_3	
	48	M	370	525	S_3	
					4_2	

Table VI (continued)

Biological information obtained from Sockeye samples collected at Bowser Lake, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Counts
Sept 12	49	M	415	570	5_3	8+8
	50	M	430	580	4_2	
	51	F	510	605	6_3	
	52	F	520	660	6_3	
	53	F	510	620	6_3	
	54	F	535	675	6_3	
	55	F	455	615	6_3	
	56	F	550	625	5_2	
	57	F	485	600	6_3	
	58	F	520	650	5_2	
	59	F	480	655	6_3	
	60	F	420	535	5_3	6+8
	61	F	465	575	6_3	
	62	F	510	680	6_3	
	63	F	435	525	5_3	5+8
	64	F	445	555	5_3	5+8
	65	F	445	600	6_3	
	66	F	455	610	6_3	
	67	F	505	630	6_3	
	68	F	415	520	5_3	6+9
	69	F	485	610	6_3	
	70	F	455	550	4_2	
	71	F	440	550	5_2	
	72	F	425	555	4_2	
	73	F	475	615	5_2	
	74	F	505	630	6_2	
	75	F	500	640	5_2	
	76	M	445	580	6_3	
	77	M	535	655	6_3	
	78	M	530	675	6_3	
	79	M	535	665	5_2	
	80	M	540	690	6_3	
	81	M	530	675	6_3	
	82	M	455	600	5_3	
	83	M	375	520	5_3	7+6
	84	M	500	670	6_3	
	85	M	485	655	6_3	
	86	M	490	640	5_2	
	87	M	550	690	5_2	
	88	M	430	645	5_2	
	89	M	485	625	6_3	
	90	M	415	565	5_3	
	91	M	520	660	5_2	
	92	M	505	680	6_3	
	93	M	520	645	6_3	
	94	M	545	675	5_2	
	95	M	510	670	5_2	
	96	M	540	710	6_3	

Table VI (continued)

Biological information obtained from Sockeye samples collected at Bowser Lake, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Counts
Sept 12	97	M	470	610	5_3	
	98	M	515	675	5_2	
	99	M	545	700	6_3	
	100	M	515	690	5_2	
	101	F	350	490	5_3	4+7
	102	F	440	585	6_3	
	103	F	460	640	6_3	
	104	F	500	645	6_3	
	105	F	495	625	6_3	
	106	M	495	640	6_3	
	107	F	440	555	5_3	
	108	F	315	410	3_2	
	109	M	495	670	6_2	
	110	F	500	640	5_2	
	111	F	490	630	6_3	
	112	F	400	510	4_2	
	113	F	470	630	5_2	
	114	F	465	630	6_2	
	115	F	405	535	5_3	7+6
	116	F	435	520	5_3	6+9
	117	F	470	625	5_2	
	118	F	500	645	5_2	
	119	F	445	580	6_2	
	120	F	420	560	5_2	
	121	F	445	570	6_3	
	122	F	485	655	5_2	
	123	F	490	635	6_3	
	124	F	505	645	5_2	
	125	F	510	645	5_2	
	126	F	470	640	6_3	
	127	F	440	570	5_3	5+8
	128	F	470	620	6_3	
	129	F	410	520	4_2	
	130	F	415	530	5_2	6+8
	131	F	485	635	6_3	
	132	F	450	550	5_3	5+6
	133	F	475	600	6_3	
	134	F	510	655	6_3	
	135	F	500	635	6_3	
	136	F	495	640	6_3	
	137	F	500	645	5_3	
	138	F	505	625	6_2	
	139	F	455	545	4_3	
	140	F	505	610	6_2	
	141	F	535	685	5_3	
	142	F	420	545	5_2	8+6
	143	F	495	625	5_3	
	144	M	440	575	5_2	

Table VI (continued)

Biological information obtained from Sockeye samples collected at Bowser Lake, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Counts
Sept 12	145	M	505	650	6_3	
	146	M	560	745	6_3	
	147	M	535	700	6_3	
	148	M	500	665	6_3	
	149	M	415	560	5_3	
	150	M	515	675	5_3	
	151	M	500	655	6_2	
	152	M	485	650	5_3	
	153	M	490	615	5_2	
	154	M	455	585	RG	
	155	M	505	670	4_2	
	156	M	450	565	6_3	
	157	M	530	700	4_2	
	158	M	555	715	6_2	
	159	M	540	690	6_3	
	160	M	500	650	6_3	
	161	M	530	680	5_3	
	162	M	505	690	5_2	
	163	M	460	580	5_2	6+7
	164	M	535	730	6_3	
	165	M	445	580	5_3	8+7
	166	M	445	565	5_3	6+8
	167	M	540	720	6_3	
	168	M	520	670	6_3	
	169	M	520	700	5_2	
	170	M	540	710	6_3	
	171	M	510	655	6_3	
	172	M	490	615	5_3	6+6
	173	M	530	680	5_2	
	174	M	460	585	5_3	5+7
	175	M	450	595	5_3	5+7
	176	M	390	515	4_2	
	177	M	450	630	5_2	
	178	M	500	630	6_3	
	179	M	455	595	5_3	6+8
	180	M	545	705	5_2	
	181	M	390	485	4_2	
	182	M	430	550	5_2	9+8
	183	M	410	520	5_3	5+7
	184	M	465	610	5_3	
	185	M	425	535	5_3	5+9
	186	M	425	560	5_3	
	187	M	520	670	6_3	
	188	M	450	600	5_3	
	189	M	525	670	5_3	
	190	M	530	680	5_2	
	191	M	505	650	6_2	
	192	M	510	650	6_3	

Table VI (continued)

Biological information obtained from Sockeye samples collected at Bowser Lake, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Counts
Sept 12	193	M	505	650	6_3	
	194	M	455	595	5_3	
	195	M	540	705	5_3	
	196	M	500	625	6_2	
	197	M	435	555	5_3	
	198	M	500	690	6_3	
	199	M	440	575	5_3	
	200	M	530	685	5_3	
	201	M	390	500	S_2	
	202	M	485	610	6_3	
	203	M	510	660	6_3	
	204	M	535	700	S_3	
	205	M	540	695	6_3	
	206	M	525	695	5_3	
	207	M	550	710	5_2	
	208	M	490	615	6_2	
	209	M	480	615	S_3	
	210	M	470	640	6_2	
	211	M	525	675	6_3	
	212	M	520	660	5_3	
	213	M	525	685	S_2	
	214	M	545	700	5_2	
	215	M	520	655	W^2	
	216	M	375	470	4_2	
	217	M	505	685	6_3	
	218	M	520	685	6_3	

Table VII

Biological information obtained from Sockeye samples collected at Damdochax Lake, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Counts
Sept. 13	1	F	470	580	5_2	
	2	F	505	630	6_2	
	3	F	450	570	6_3	
	4	F	505	640	5_3	
	5	F	530	650	5_2	
	6	F	475	605	5_2	
	7	F	455	575	5_2	
	8	F	450	555	5_3	8+10
	9	F	500	630	5_3	
	10	F	415	530	5_2	8+7
	11	F	465	575	5_3	
	12	F	485	600	5_2	
	13	F	470	580	5_2	
	14	F	490	615	5_2	
	15	F	425	540	4_2	
	16	F	435	555	5_2	8+9
	17	F	480	590	5_3	
	18	F	510	635	5_2	
	19	F	490	610	5_2	
	20	F	500	630	5_2	
	21	F	500	630	5_2	
	22	F	480	610	5_2	
	23	F	500	610	5_2	
	24	F	500	620	5_2	
	25	F	510	635	5_2	
	26	M	530	695	5_2	
	27	M	505	660	5_2	
	28	M	510	655	5_2	
	29	M	495	625	5_2	
	30	M	530	685	5_2	
	31	M	550	725	5_2	
	32	M	490	655	5_2	
	33	M	510	685	5_2	
	34	M	510	690	5_2	
	35	M	555	725	5_2	
	36	M	530	690	5_2	
	37	M	495	675	5_2	
	38	M	535	705	5_2	
	39	M	520	675	5_2	
	40	M	565	690	5_2	
	41	M	545	700	5_2	
	42	M	520	685	5_2	
	43	M	515	670	6_2	
	44	M	535	690	5_3	
	45	M	530	705	5_2	
	46	M	495	640	5_2	
	47	M	500	635	5_2	
	48	F	540	675	5_2	

Table VII (continued)

Biological information obtained from Sockeye samples collected at Damdochax Lake, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Counts
Sept 13	49	F	510	650	5_2	
	50	M	550	690	5_2	
	51	F	490	605	5_2	
	52	F	495	605	5_2	
	53	F	505	635	5_2	
	54	F	435	535	5_2	
	55	F	390	490	4_3	
	56	F	490	620	5_2	
	57	F	475	595	6_2	
	58	F	490	605	5_3	
	59	F	495	630	5_2	
	60	F	500	625	5_2	
	61	F	480	605	5_2	
	62	F	505	635	5_2	
	63	F	485	615	5_2	
	64	F	475	595	5_2	
	65	F	510	630	5_2	
	66	F	535	665	5_2	
	67	F	510	630	5_2	
	68	F	500	630	5_2	
	69	F	490	605	5_2	
	70	F	475	590	5_2	
	71	F	445	550	4_2	
	72	F	470	595	5_2	
	73	F	500	635	5_2	
	74	F	405	500	5_2	
	75	F	395	505	5_2	
	76	M	525	675	5_3	
	77	M	520	670	5_2	
	78	M	530	700	5_2	
	79	M	540	695	5_2	
	80	M	525	690	5_2	
	81	M	515	675	5_2	
	82	M	470	625	5_2	
	83	M	490	650	5_2	
	84	M	530	705	5_2	
	85	M	530	690	5_2	
	86	M	530	700	5_2	
	87	M	565	725	5_2	
	88	M	500	640	6_2	
	89	M	510	675	5_3	
	90	M	525	675	5_2	
	91	M	495	635	5_2	
	92	M	540	700	5_2	
	93	M	515	685	5_2	
	94	F	450	570	5_2	
	95	F	505	620	5_2	
	96	F	520	665	5_2	

Table VII (continued)

Biological information obtained from Sockeye samples collected at Damdochax Lake, 1990.

Date	Sample #	Sex	Hypural Length (mm)	Nose/Fork Length (mm)	Age	Circuli Counts
Sept 13	97	F	435	555	4_2	
	98	F	495	620	5_2	
	99	F	515	635	5_2	
	100	F	485	615	5_2	

Table VIII

Age composition information for sockeye sampled from Meziadin Fishway by day and sex.

Date	Sex	3_1 #	3_1 %	4_2 #	4_2 %	5_2 #	5_2 %	5_3 #	5_3 %	6_3 #	6_3 %	Total
July 17	M	0		2	18.2	2	18.2	5	45.5	2	18.2	11
	F	0		0	0.0	3	42.9	3	42.9	1	14.3	7
July 18	M	0		2	15.4	5	38.5	5	38.5	1	7.7	13
	F	0		4	23.5	3	17.6	8	47.1	2	11.8	17
July 19	M	0		2	10.0	3	15.0	12	60.0	3	15.0	20
	F	0		7	25.0	4	14.3	13	46.4	4	14.3	28
July 20	M	0		3	21.4	2	14.3	6	42.9	3	21.4	14
	F	0		4	11.1	3	8.3	21	58.3	8	22.2	36
July 21	M	0		6	30.0		0.0	13	65.0	1	5.0	20
	F	0		10	34.5		0.0	19	65.5		0.0	29
July 22	M	0		2	16.7	2	16.7	7	58.3	1	8.3	12
	F	0		8	22.2		0.0	22	61.1	6	16.7	36
July 23	M	0		5	22.7	3	13.6	10	45.5	4	18.2	22
	F	0		3	12.0	2	8.0	20	80.0		0.0	25
July 24	M	0		1	16.7	1	16.7	3	50.0	1	16.7	6
	F	0		3	13.6	1	4.5	13	59.1	5	22.7	22
July 25	M	0		3	27.3	1	9.1	7	63.6		0.0	11
	F	0		0	0.0	1	5.6	17	94.4		0.0	18
July 26	M	0		1	14.3	2	28.6	4	57.1		0.0	7
	F	0		2	11.1	2	11.1	12	66.7	2	11.1	18
July 27	M	0			0.0		0.0	10	100		0.0	10
	F	0		3	23.1		0.0	8	61.5	2	15.4	13

Table VIII (continued)

Age composition information for sockeye sampled from Meziadin Fishway by day and sex.

Date	Sex	3_1 #	3_1 %	4_2 #	4_2 %	5_2 #	5_2 %	5_3 #	5_3 %	6_3 #	6_3 %	Total
July 28	M	0		4	33.3	2	16.7	5	41.7	1	8.3	12
	F	0		2	16.7	1	8.3	8	66.7	1	8.3	12
July 29	M	0		2	22.2		0.0	7	77.8		0.0	9
	F	0		5	35.7		0.0	8	57.1	1	7.1	14
July 30	M	0		3	33.3		0.0	4	44.4	2	22.2	9
	F	0			0.0		0.0	11	84.6	2	15.4	13
July 31	M	0		1	12.5		0.0	4	50.0	3	37.5	8
	F	0		6	40.0		0.0	8	53.3	1	6.7	15
Aug 1	M	0		1	14.3	1	14.3	4	57.1	1	14.3	7
	F	0		4	26.7	2	13.3	8	53.3	1	6.7	15
Aug 2	M	0			0.0		0.0	5	100		0.0	5
	F	0		4	21.1	1	5.3	10	52.6	4	21.1	19
Aug 3	M	0			0.0	1	14.3	6	85.7		0.0	7
	F	0		3	18.8	1	6.3	8	50.0	4	25.0	16
Aug 4	M	0		1	12.5	1	12.5	6	75.0		0.0	8
	F	0		3	21.4	3	21.4	8	57.1		0.0	14
Aug 5	M	0		2	40.0	1	20.0	2	40.0		0.0	5
	F	0		5	31.3		0.0	9	56.3	2	12.5	16
Aug 6	M	0		6	50.0		0.0	5	41.7	1	8.3	12
	F	0		3	25.0		0.0	9	75.0		0.0	12

Table VIII (continued)

Age composition information for sockeye sampled from Meziadin Fishway by day and sex.

Date	Sex	3_1 #	3_1 %	4_2 #	4_2 %	5_2 #	5_2 %	5_3 #	5_3 %	6_3 #	6_3 %	Total
Aug 7	M	0		2	22.2		0.0	6	66.7	1	11.1	9
	F	0		2	15.4		0.0	11	84.6		0.0	13
Aug 8	M	0		2	40.0		0.0	3	60.0		0.0	5
	F	0		1	6.7	2	13.3	10	66.7	2	13.3	15
Aug 9	M	0		2	28.6		0.0	4	57.1	1	14.3	7
	F	0		2	14.3	3	21.4	8	57.1	1	7.1	14
Aug 10	M	0			0.0	2	40.0	3	60.0		0.0	5
	F	0		2	11.1	4	22.2	10	55.6	2	11.1	18
Aug 11	M	0		4	40.0	1	10.0	4	40.0	1	10.0	10
	F	0		5	33.3	1	6.7	8	53.3	1	6.7	15
Aug 12	M	0		2	22.2	1	11.1	4	44.4	2	22.2	9
	F	0		1	7.1	2	14.3	10	71.4	1	7.1	14
Aug 13	M	0			0.0		0.0		0.0	1	100	1
	F	0		3	42.9		0.0	4	57.1		0.0	7
Aug 14	M	0			0.0	1	16.7	4	66.7	1	16.7	6
	F	0		5	31.0	3	18.8	7	43.8	1	6.3	16
Aug 15	M	0		1	50.0	1	50.0		0.0		0.0	2
	F	0		1	16.7	1	16.7	1	16.7	3	50.0	6
Aug 16	M	0			0.0		0.0	2	100		0.0	2
	F	0		1	25.0		0.0	3	75.0		0.0	4

Table VIII (continued)

Age composition information for sockeye sampled from Meziadin Fishway by day and sex.

Date	Sex	3_1 #	3_1 %	4_2 #	4_2 %	5_2 #	5_2 %	5_3 #	5_3 %	6_3 #	6_3 %	Total
Aug 17	M		0	2	50.0		0.0	2	50.0		0.0	4
	F		0	1	20.0		0.0	2	40.0	2	40.0	5
Aug 18	M		0	2	18.2	1	9.1	8	72.7		0.0	11
	F		0		0.0	1	8.3	10	83.3	1	8.3	12
Aug 19	M		0	1	9.1	1	9.1	6	54.5	3	27.3	11
	F		0	2	14.3		0.0	9	64.3	3	21.4	14
Aug 20	M		0	3	33.3	1	11.1	3	33.3	2	22.2	9
	F		0	1	7.1	2	14.3	9	64.3	2	14.3	14
Aug 21	M		0	2	18.2	3	27.3	3	27.3	3	27.3	11
	F		0	3	21.4	2	14.3	7	50.0	2	14.3	14
Aug 22	M		0	2	28.6		0.0	5	71.4		0.0	7
	F		0	2	11.1	1	5.6	10	55.6	5	27.8	18
Aug 23	M		0	2	40.0	1	20.0	2	40.0		0.0	5
	F		0	6	35.3	2	11.8	7	41.2	2	11.8	17
Aug 24	M		0	3	30.0	1	10.0	4	40.0	2	20.0	10
	F		0	1	12.5		0.0	6	75.0	1	12.5	8
Aug 25	M		0	1	10.0	1	10.0	7	70.0	1	10.0	10
	F		0	3	16.7		0.0	13	72.2	2	11.1	18
Aug 26	M		0		0.0	1	16.7	3	50.0	2	33.3	6
	F	1	6	4	22.2	1	5.6	12	66.7		0.0	18

Table VIII (continued)

Age composition information for sockeye sampled from Meziadin Fishway by day and sex.

Date	Sex	3_1 #	3_1 %	4_2 #	4_2 %	5_2 #	5_2 %	5_3 #	5_3 %	6_3 #	6_3 %	Total
Aug 27	M	0		0	0.0	1	11.1	5	55.6	3	33.3	9
	F	0		4	28.6	2	14.3	6	42.9	2	14.3	14
Aug 28	M	0		2	33.3	0	0.0	2	33.3	2	33.3	6
	F	0		5	31.3	3	18.8	6	37.5	2	12.5	16
Aug 29	M	0		1	16.7	0	0.0	3	50.0	2	33.3	6
	F	0		4	30.8	2	15.4	6	46.2	1	7.7	13
Aug 30	M	0		0	0.0	0	0.0	3	60.0	2	40.0	5
	F	0		3	21.4	2	14.3	7	50.0	2	14.3	14
Aug 31	M	0		0	0.0	0	0.0	3	60.0	2	40.0	5
	F	0		2	11.1	1	5.6	12	66.7	3	16.7	18
Sept 1	M	0		1	33.3	0	0.0	2	66.7	0	0.0	3
	F	0		3	15.0	2	10.0	13	65.0	2	10.0	20
Sept 2	M	0		1	16.7	1	16.7	3	50.0	1	16.7	6
	F	0		2	11.8	0	0.0	12	70.6	3	17.6	17
Sept 3	M	0		0	0.0	0	0.0	0	0.0	1	100	1
	F	0		3	13.6	1	4.5	13	59.1	5	22.7	22
Sept 4	M	0		0	0.0	0	0.0	4	80.0	1	20.0	5
	F	0		1	6.3	1	6.3	10	62.5	4	25.0	16
Sept 5	M	0		1	14.3	0	0.0	4	57.1	2	28.6	7
	F	0		6	33.3	0	0.0	10	55.6	2	11.1	18

Table VIII (continued)

Age composition information for sockeye sampled from Meziadin Fishway by day and sex.

		3_1		4_2		5_2		5_3		6_3		
Date	Sex	#	%	#	%	#	%	#	%	#	%	Total
Sept 6	M		0		0.0	1	14.3	4	57.1	2	28.6	7
	F		0	4	28.6	1	7.1	9	64.3		0.0	14
Sept 7	M		0	1	20.0		0.0	3	60.0	1	20.0	5
	F		0		0.0	2	28.6	5	71.4		0.0	7
Total	M		0	85	19.7	45	10.4	239	55.3	63	14.6	432
	F	1	0	162	19.2	69	8.2	509	60.3	103	12.2	844

Note: Any discrepency in the percentages are due to rounding error. Where the summary total indicates less than fourteen hundred fish sampled, this is due to scale sample inadequacies resulting in the loss of information.

Table IX

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		3_1		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
July 17	M			495	610	520	640	480	590	528	655
	F					518	633	492	598	510	620
July 18	M			465	573	542	666	497	605	520	650
	F			466	554	507	613	478	575	543	660
July 19	M			495	610	573	710	485	597	558	682
	F			466	562	530	635	468	578	507	611
July 20	M			485	590	530	663	488	594	532	655
	F			461	555	531	650	481	582	530	646
July 21	M			467	582			500	595	580	730
	F			466	563			475	575		
July 22	M			490	598	528	650	496	610	535	650
	F			473	573			469	569	520	640
July 23	M			482	595	517	643	492	606	551	685
	F			453	545	507	628	483	587		
July 24	M			520	640	520	670	475	588	555	690
	F			482	582	520	640	468	571	518	631
July 25	M			465	570	565	715	502	603		
	F					540	670	471	578		
July 26	M			505	620	518	648	496	615	515	633
	F			465	565	520	645	468	569		
July 27	M							471	588		
	F			467	568			459	562	550	675

Table IX (continued)

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		3_1		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
July 28	M			480	583	530	655	483	593	540	675
	F			430	523	520	640	463	559	560	670
July 29	M			503	620			482	601		
	F			460	563			465	570	490	615
July 30	M			473	587			478	585	542	660
	F							459	556	493	600
July 31	M			480	590			486	592	545	665
	F			460	557			459	551	535	665
Aug 1	M			510	615	510	625	498	616	530	670
	F			449	551	548	673	461	563	515	620
Aug 2	M							475	585		
	F			448	551	560	695	458	558	514	628
Aug 3	M					530	650	495	612		
	F			445	550	500	600	489	598	536	651
Aug 4	M			505	610	545	675	493	603		
	F			438	525	492	605	477	584		
Aug 5	M			440	553	550	680	475	580		
	F			471	579			450	547	543	663
Aug 6	M			497	613			484	604	530	650
	F			440	537			458	552		

Table IX (continued)

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		3_1		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
Aug 7	M			490	595			488	593	550	680
	F			463	558			461	555		
Aug 8	M			455	560			490	617		
	F			400	485	540	670	470	576	583	708
Aug 9	M			480	613			489	610	545	680
	F			438	530	541	652	478	587	550	670
Aug 10	M					575	703	510	628		
	F			475	575	509	620	474	578	563	685
Aug 11	M			485	591	555	680	516	621	585	715
	F			467	582	490	610	464	568	560	685
Aug 12	M			483	608	475	600	495	610	558	683
	F			440	560	545	668	477	579	560	680
Aug 13	M									550	700
	F			442	535			466	573		
Aug 14	M					535	675	500	621	550	670
	F			478	585	533	653	475	574	510	625
Aug 15	M			460	590	530	680				
	F			510	635	485	610	500	620	538	665
Aug 16	M							498	608		
	F			490	600			528	647		

Table IX (continued)

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		3_1		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
Aug 17	M			478	590			505	620		
	F			490	600			440	540	573	698
Aug 18	M			493	603	555	690	488	599		
	F					495	630	485	590	550	665
Aug 19	M			465	570	590	720	494	605	567	702
	F			470	577			489	592	503	623
Aug 20	M			463	562	560	695	493	597	573	705
	F			500	600	515	623	512	614	525	643
Aug 21	M			453	555	565	697	500	615	577	700
	F			482	577	523	640	460	559	555	665
Aug 22	M			490	603			494	601		
	F			488	583	520	640	491	600	563	683
Aug 23	M			488	593	570	700	483	588		
	F			469	567	555	670	491	593	545	658
Aug 24	M			467	572	570	705	511	631	585	723
	F			460	560			490	592	555	675
Aug 25	M			410	500	545	670	501	617	550	670
	F			442	530			488	587	570	700
Aug 26	M					565	705	505	618	563	695
	F	380	465	464	566	510	610	486	589		

Table IX (continued)

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		3_1		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
Aug 27	M					595	745	480	595	577	707
	F			478	579	550	655	511	620	563	683
Aug 28	M			488	605	570	690	515	633	585	723
	F			433	525	532	647	488	594	558	670
Aug 29	M			470	575			510	622	575	705
	F			445	538	555	668	472	576	545	655
Aug 30	M							492	607	513	630
	F			465	563	518	630	501	606	525	635
Aug 31	M							475	582	595	730
	F			440	530	530	640	488	590	552	663
Sept 1	M			510	620			523	638		
	F			477	573	518	620	496	600	558	690
Sept 2	M			490	620	555	670	492	603	570	700
	F			445	540			483	582	542	660
Sept 3	M									545	670
	F			473	568	530	655	484	586	538	654
Sept 4	M							499	609	580	720
	F			440	525	550	650	491	592	553	671
Sept 5	M			490	600			506	623	560	690
	F			478	577			497	600	538	645

Table IX (continued)

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		3_1		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
Sept 6	M					520	635	518	643	560	698
	F			481	581	465	570	504	607		
Sept 7	M			505	625			510	627	560	690
	F					505	610	494	597		
Average	M			480	591	547	677	494	607	554	684
	F	380	465	452	559	521	637	479	582	539	657

Note: H.P. indicates the hypural to post-orbital length in millimeters.

N/F indicates the nose fork length in millimeters.

Table X

Average length by age and sex of sockeye sampled from Bonnie Creek, Damdochax and Bowser Lake's, in 1990.

		3_2		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
Bonnie Creek											
Sept 11	M			425	555	495	646			500	670
	F			425	530	488	609	460	575		
Bowser Lake											
Sept 12	M			416	547	510	665	436	573	514	670
	F	315	410	429	536	495	635	424	537	484	624
Damdochax Lake											
Sept 13	M					522	681			508	655
	F			424	534	493	616	431	543	477	598

Note: H.P. indicates the hypural to post-orbital length in millimeters.

N/F indicates the nose fork length in millimeters.

Table XI

Age composition information for sockeye salmon from Bonnie Creek Damdochax and Bowser Lake's in 1990.

Date	Sex	3_2 #	3_2 %	4_2 #	4_2 %	5_2 #	5_2 %	5_3 #	5_3 %	6_3 #	6_3 %	Total
Bonnie Creek												
Sept 11	M			2	3.8	50	94.3			1	1.9	53
	F			5	12.2	36	87.8					41
Bowser Lake												
Sept 12	M			11	7.7	40	28	30	21	62	43.3	143
	F	1	1.6	5	7.7	14	21.5	13	20	32	49.2	65
Damdochax Lake												
Sept 13	M					39	95.1			2	4.9	41
	F			4	6.7	46	78	6	10.2	3	5.1	59

Note: Any discrepency in the percentages are due to rounding error.

Acknowledgements

The author would like to thank Dwyane McInnis and Jim Hansen for their dedication and perseverance at the Meziadin Fishway for a job well done. The author would also like to thank Les Jantz, Jim Steward (DFO), and Lou Debuc (Lakes District Air) for conducting the upper Nass Survey.
Special thanks to Bea Lapp for her assistance in the final preparations of this report.

References

Dickson, F. V. and Todd I. S. Nass River Sockeye Salmon
A review of the commercial fishery and a summary of the
biological programs. Department of Fisheries, Canada. 73 p.

Southgate, D.R., M.J. Jakubowski, V.L. Craig, and A.L. Jantz,
1989. Review of the Meziadin River fishway biological program
for 1987 and 1988.
Can. Data Rep. Fish. Aquat. Sci. 739: + 79 p.